

Supplemental Information

Statistical Optimization of Hydrazone-Crosslinked Hyaluronic Acid Hydrogels for Protein Delivery

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Degree of Modification

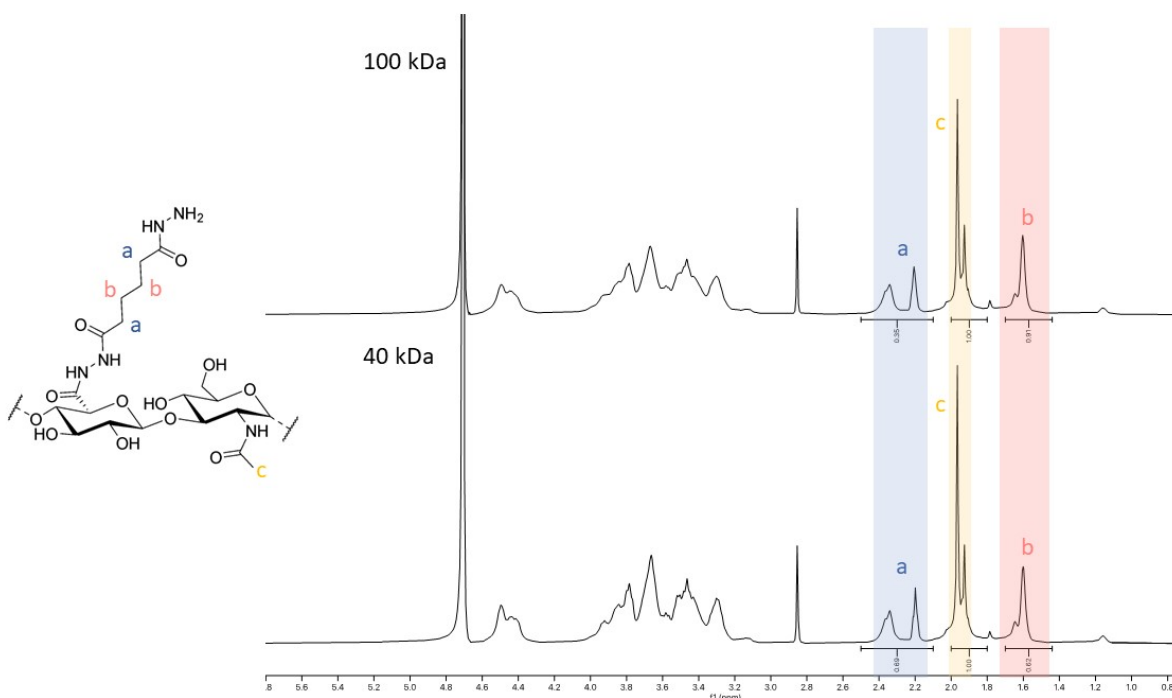


Figure S1. ¹H NMR of 40 kDa and 100 kDa HA-ADH. HA-ADH functionalization was confirmed by ¹H NMR. The percentage of ADH functional groups per polymer chain was calculated by integrating the hydrogen peaks from the aliphatic chain on ADH (8H, a-b) and normalizing by the hydrogen peaks from the on the n-actyl group on HA (3H, c).

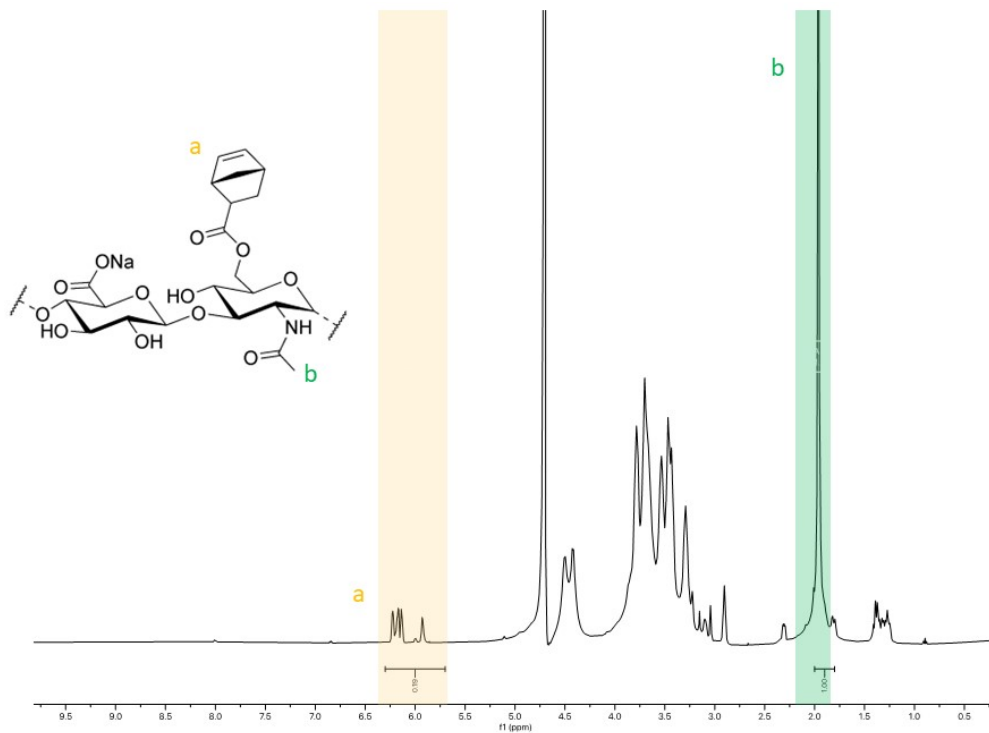


Figure S2. ^1H NMR of HA-Nor. The functionalization of HA-Nor was confirmed by ^1H NMR. The degree of modification or the percentage of norbornene groups per HA polymer chain was calculated by integrating the vinyl hydrogen peaks on the norbornene functional group (2H, a) and normalizing to the hydrogen peaks from the on the n-acetyl group on HA (3H, b).

Modification	%Degree of Modification		%Yield	
	40 kDa	100 kDa	40 kDa	100 kDa
HA-Ox	22.5%	56.0%	42.0%	68.3%
	25.9%	35.5%	21.8%	89.2%
	34.0%	32.6%	27.6%	83.4%
	27.5 ± 5.9%	41.4 ± 12.8%	30.5 ± 10.4%	80.3 ± 10.8%
HA-ADH	69.3%	45.1%	45.1%	44.9%
	67.5%	52.7%	52.7%	46.4%
	66.8%	40.6%	40.6%	49.5%
	66.9%	63.7%	52.8%	46.6%
	67.6 ± 1.2%	50.6 ± 10.1%	47.8 ± 6.0%	46.8 ± 1.9%
HA-Nor	-	30.0%	-	34.0%
	-	27.0%	-	54.0%
	-	33.3%	-	31.0%
	-	30.1 ± 3.2%	-	38.7 ± 12.5%

Table S1. Degree of Modification and Yield for Functionalized HA Polymers. A summary of the average degrees of modification and average yields for each functionalized HA polymer, including HA-Ox, HA-ADH, and HA-Nor.

Molecular Weight of Unmodified and Modified HA

Modification	Number Molecular Weight, M _n (Da)		Average Molecular Weight, M _w (Da)		Polydispersity Index (PDI)	
	40 kDa	100 kDa	40 kDa	100 kDa	40 kDa	100 kDa
HA	34,912	76,797	62,776	131,134	1.798	1.708
	37,549	72,300	62,123	128,996	1.654	1.784
	36,438	78,179	61,823	132,258	1.697	1.692
	36,300 ± 1,081	75,759 ± 2,510	62,241 ± 398	130,796 ± 1,353	1.716 ± 0.060	1.728 ± 0.040
HA-Ox	19,284	46,061	31,778	85,120	1.648	1.848
	18,922	47,872	31,907	85,328	1.686	1.782
	20,029	43,046	31,853	80,005	1.590	1.859
	19,412 ± 461	45,660 ± 1,991	31,846 ± 53	83,484 ± 2,462	1.641 ± 0.039	1.830 ± 0.034
HA-ADH	112,437	113,363	376,002	267,904	1.9878	2.1431
	111,212	123,308	381,266	290,938	2.0184	2.3186
	107,304	109,823	343,204	283,265	2.0553	2.0860
	110,318 ± 2,189	115,498 ± 5,708	366,824 ± 16,840	280,702 ± 9,577	2.0205 ± 0.0276	2.1826 ± 0.0990

Table S2. HA polymer molecular weight. Molecular weights of unmodified and modified HA were determined by gel permeation chromatography. N=3.

Statistical Analysis of Gelation Time

Gelation Time Significance		
Dunnett's T3 multiple comparisons test	Summary	Adjusted P Value
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa)	****	<0.0001
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa)	***	0.0005
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa)	****	<0.0001
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa)	**	0.0043
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa)	**	0.0026
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	****	<0.0001
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa)	****	<0.0001
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	***	0.0002
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa)	****	<0.0001
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	****	<0.0001
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa)	****	<0.0001
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	***	0.0005
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	***	0.0005
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	****	<0.0001
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa)	ns	0.3702

HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa)	***	0.0002
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa)	**	0.0048
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa)	ns	0.0888
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	***	0.0004
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa)	**	0.0021
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	**	0.0027
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa)	**	0.0018
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	>0.9999
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa)	***	0.0002
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	*	0.0335
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	*	0.0427
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	****	<0.0001
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa)	*	0.0246
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa)	****	<0.0001
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa)	*	0.0269
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	*	0.0359
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa)	*	0.0252
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	*	0.0305
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa)	*	0.0206
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	0.3194
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa)	*	0.0243
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	*	0.0204
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	*	0.0327
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	*	0.0465
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa)	**	0.0024
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa)	*	0.0173
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	****	<0.0001
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa)	ns	0.8765
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	ns	0.0698
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa)	*	0.0367
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	****	<0.0001
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa)	ns	>0.9999
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	ns	0.2687
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	0.2078
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	****	<0.0001
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa)	**	0.0013
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	**	0.0072
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa)	**	0.0024
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	***	0.0003

HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa)	**	0.0023
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	**	0.0047
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa)	**	0.0024
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	****	<0.0001
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	****	<0.0001
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	**	0.0033
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.4885
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa)	*	0.0176
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	*	0.027
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa)	*	0.016
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	0.0889
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa)	*	0.0172
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	**	0.0074
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	**	0.0086
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	*	0.0297
HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa)	***	0.0008
HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	***	0.0005
HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa)	***	0.0007
HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	**	0.0012
HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa)	****	<0.0001
HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	*	0.0122
HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	*	0.0147
HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	****	<0.0001
HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	ns	0.0748
HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa)	**	0.0023
HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	****	<0.0001
HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa)	ns	0.657
HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	ns	0.2964
HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	0.2257
HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	****	<0.0001
HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa)	*	0.0446
HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	*	0.0121
HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa)	ns	0.0674
HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	ns	0.9998
HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	>0.9999
HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	ns	0.5425
HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	****	<0.0001
HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa)	*	0.0417
HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	ns	0.1714

HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	0.141
HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	****	<0.0001
HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa) vs. HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa)	****	<0.0001
HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	*	0.0303
HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	*	0.0389
HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	****	<0.0001
HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	ns	0.2597
HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	0.2018
HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	****	<0.0001
HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	>0.9999
HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	ns	0.5742
HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	ns	0.9285

Table S3. Summary of significance for 40 kDa HA gelation times and 100 kDa HA gelation time. A summary of significance for the gelation times for both 40 kDa and 100 kDa is listed, a one-way ANOVA post-hoc Dunnett's T3 multiple comparisons was performed. n = 3; * p < 0.05, ** < p 0.01, *** p < 0.001, **** p < 0.0001.

Statistical Analysis of Compressive Modulus

Compressive Modulus Significance		
Dunnett's T3 multiple comparisons test	Summary	Adjusted P Value
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa)	ns	0.9591
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa)	ns	>0.9999
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa)	ns	0.4543
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa)	ns	0.5122
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa)	ns	0.8766
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	*	0.0297
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa)	ns	0.3815
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	ns	0.5412
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa)	ns	0.1398
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	0.2201
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa)	**	0.0065
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	*	0.0296
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	0.1101
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	***	0.0001
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa)	ns	0.9702
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa)	ns	0.5643
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa)	ns	0.9999
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa)	ns	0.9989
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.144
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa)	ns	0.431
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	ns	0.6178

HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa)	ns	0.1057
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	0.2891
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa)	**	0.0036
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	*	0.0491
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	0.0833
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	***	0.0002
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa)	ns	0.4708
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa)	ns	0.5468
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa)	ns	0.9131
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	*	0.0434
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa)	ns	0.3904
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	ns	0.5559
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa)	ns	0.1407
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	0.2246
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa)	*	0.0243
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	ns	0.0734
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	0.1083
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	***	0.0003
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa)	ns	0.638
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa)	ns	0.8503
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.9537
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa)	ns	0.9545
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	ns	>0.9999
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa)	ns	0.9992
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	>0.9999
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa)	ns	0.7687
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	ns	0.9996
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	>0.9999
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	ns	0.2458
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa)	ns	>0.9999
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.2323
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa)	ns	0.4638
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	ns	0.6686
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa)	ns	0.203
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	0.3314
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa)	**	0.0039
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	ns	0.057
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	0.0997
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	***	0.0003
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.9845
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa)	ns	0.5079

HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	ns	0.7857
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa)	ns	0.2589
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	0.5083
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa)	ns	0.0877
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	ns	0.1852
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	0.2961
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	**	0.0047
HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa)	ns	0.6264
HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	ns	0.8819
HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa)	ns	0.3723
HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	0.6428
HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa)	*	0.0263
HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	ns	0.1541
HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	0.2902
HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	***	0.001
HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	ns	>0.9999
HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa)	ns	0.9991
HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	0.9743
HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa)	ns	>0.9999
HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	ns	0.9915
HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	0.9682
HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	ns	0.9996
HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa)	ns	>0.9999
HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	>0.9999
HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa)	ns	>0.9999
HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	ns	>0.9999
HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	>0.9999
HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	ns	0.8547
HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	>0.9999
HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa)	ns	0.9655
HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	ns	>0.9999
HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	>0.9999
HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	ns	0.1859
HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa) vs. HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa)	ns	0.6977
HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	ns	>0.9999
HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	>0.9999
HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	ns	0.1135
HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	ns	0.7478
HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	0.5603
HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	ns	0.2718
HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	>0.9999

HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	ns	0.0538
HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	*	0.044

Table S4. Summary of significance for 40 kDa HA compressive modulus and 100 kDa HA compressive modulus. A summary of significance for the compressive modulus for both 40 kDa and 100 kDa is listed, a one-way ANOVA post-hoc Dunnett's T3 multiple comparisons was performed. n = 3; * p < 0.05, ** < p 0.01, *** p < 0.001, **** p < 0.0001.

Statistical Analysis of Mass Change

Mass Change Significance		
Tukey's multiple comparisons test	Summary	Adjusted P Value
Day 1		
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa)	ns	0.484
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa)	ns	0.5557
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa)	ns	0.6338
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa)	ns	0.9969
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa)	ns	0.3629
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa)	ns	0.1086
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa)	ns	0.7109
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa)	ns	>0.9999
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	ns	0.9294
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	ns	0.7845
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	>0.9999
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	ns	0.683
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	>0.9999
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.3514
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa)	ns	0.7532
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa)	ns	0.7932
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa)	ns	>0.9999
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa)	ns	>0.9999
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa)	ns	0.1164
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa)	ns	0.2618
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa)	ns	0.5469
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	ns	0.3309
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	ns	0.2637
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	0.855
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	ns	>0.9999
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	0.8929
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.2722
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa)	ns	>0.9999
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa)	ns	0.9999

HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa)	ns	0.7066
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa)	ns	0.0524
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa)	ns	0.302
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa)	ns	0.9163
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	ns	0.424
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	ns	0.489
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	>0.9999
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	ns	0.9259
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	>0.9999
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.068
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa)	ns	>0.9999
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa)	ns	0.773
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa)	*	0.0444
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa)	ns	0.2954
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa)	ns	0.9206
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	ns	0.4266
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	ns	0.4784
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	>0.9999
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	ns	0.9473
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	>0.9999
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.1043
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa)	ns	>0.9999
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa)	ns	0.8693
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa)	ns	0.9709
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa)	ns	0.998
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	ns	0.9846
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	ns	0.9557
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	0.9997
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	ns	>0.9999
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	0.9997
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.9713
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa)	*	0.0491
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa)	ns	0.1617
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa)	ns	0.4526
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	ns	0.2208
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	ns	0.2375
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	0.8852
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	ns	>0.9999
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	0.9225

HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.1607
HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa)	ns	0.6167
HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa)	ns	0.1228
HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	ns	0.3806
HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	ns	0.9736
HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	0.3941
HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	ns	0.1959
HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	0.457
HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.3744
HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa) vs. HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa)	ns	0.7645
HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	ns	>0.9999
HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	ns	>0.9999
HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	0.8888
HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	ns	0.4145
HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	0.9128
HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	>0.9999
HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	ns	0.9491
HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	ns	0.7916
HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	>0.9999
HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	ns	0.7551
HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	>0.9999
HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.5763
HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	ns	0.9963
HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	0.9713
HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	ns	0.5067
HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	0.9785
HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.9998
HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	0.8588
HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	ns	0.3959
HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	0.8818
HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.9999
HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	ns	0.9574
HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	>0.9999
HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.8511
HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	0.9718
HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.4109
HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.886
Day 7		
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa)	ns	>0.9999

HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa)	ns	>0.9999
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa)	ns	>0.9999
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa)	ns	0.988
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa)	ns	0.1866
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa)	ns	0.6369
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa)	ns	0.9882
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa)	ns	0.925
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	ns	0.8254
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	ns	0.6777
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	0.7135
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	ns	0.6983
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	>0.9999
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.9999
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa)	ns	>0.9999
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa)	ns	>0.9999
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa)	ns	>0.9999
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa)	ns	0.9675
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa)	ns	0.9998
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa)	ns	>0.9999
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa)	ns	>0.9999
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	ns	>0.9999
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	ns	>0.9999
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	0.9995
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	ns	0.9984
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	>0.9999
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	>0.9999
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa)	ns	>0.9999
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa)	ns	>0.9999
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa)	ns	0.5016
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa)	ns	0.9642
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa)	ns	>0.9999
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa)	ns	>0.9999
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	ns	0.9982
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	ns	0.9838
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	0.9643
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	ns	0.9371
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	>0.9999
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	>0.9999
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa)	ns	0.9815

HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa)	ns	0.2282
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa)	ns	0.6514
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa)	ns	0.9773
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa)	ns	0.9105
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	ns	0.8193
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	ns	0.6974
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	0.7032
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	ns	0.6834
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	>0.9999
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.9988
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa)	ns	0.9026
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa)	ns	>0.9999
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa)	ns	>0.9999
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa)	ns	>0.9999
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	ns	>0.9999
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	ns	>0.9999
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	>0.9999
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	ns	0.9999
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	0.9997
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.9974
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa)	ns	0.5108
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa)	ns	0.1558
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa)	ns	0.1621
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	ns	0.2364
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	ns	0.2819
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	0.9047
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	ns	0.9944
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	0.3217
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.0907
HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa)	ns	0.8528
HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa)	ns	0.8863
HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	ns	0.9957
HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	ns	0.9992
HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	>0.9999
HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	ns	0.9998
HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	0.8928
HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.5199
HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa) vs. HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa)	ns	>0.9999
HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	ns	0.9949

HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	ns	0.8492
HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	0.9104
HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	ns	0.8787
HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	>0.9999
HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.9996
HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	ns	0.9997
HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	ns	0.8427
HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	0.9397
HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	ns	0.9102
HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	0.9995
HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.9477
HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	ns	0.9999
HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	0.9929
HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	ns	0.9743
HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	0.9875
HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.7805
HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	0.998
HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	ns	0.9868
HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	0.9256
HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.4203
HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	ns	>0.9999
HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	0.9126
HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.7366
HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	0.8762
HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.7393
HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	>0.9999
Day 14		
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa)	ns	0.4582
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa)	ns	>0.9999
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa)	ns	0.8718
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa)	ns	0.1187
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa)	ns	0.1181
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa)	ns	0.5724
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa)	ns	0.9227
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa)	ns	0.991
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	ns	0.9455
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	ns	0.5572
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	0.6568
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	ns	0.2582

HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	0.5764
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.737
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa)	ns	0.3856
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa)	ns	0.7673
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa)	ns	0.0613
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa)	ns	0.0607
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa)	ns	0.1396
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa)	ns	0.2126
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa)	ns	0.2473
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	ns	0.1941
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	ns	0.1354
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	0.1381
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	ns	0.0589
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	0.0993
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.1289
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa)	ns	0.641
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa)	*	0.031
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa)	*	0.0291
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa)	ns	0.1527
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa)	ns	0.4779
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa)	ns	0.7365
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	ns	0.5914
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	ns	0.1439
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	0.208
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	ns	0.0852
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	0.2629
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.3485
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa)	*	0.0156
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa)	*	0.0141
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa)	*	0.0325
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa)	ns	0.0959
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa)	ns	0.1362
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	ns	0.0983
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	*	0.03
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	*	0.0385
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	*	0.0326
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	0.083
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.0859
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa)	ns	>0.9999

HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa)	*	0.0231
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa)	**	0.0054
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa)	**	0.0057
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	*	0.0362
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	*	0.0282
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	*	0.0481
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	ns	0.362
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	0.1778
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.1041
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa)	*	0.0188
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa)	**	0.0027
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa)	**	0.0031
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	*	0.0333
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	*	0.0237
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	*	0.0444
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	ns	0.3645
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	0.1769
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.1021
HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa)	ns	0.3062
HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa)	ns	0.1386
HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	ns	0.6462
HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	ns	>0.9999
HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	>0.9999
HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	ns	0.6112
HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	>0.9999
HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	>0.9999
HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa) vs. HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa)	ns	0.9148
HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	ns	>0.9999
HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	ns	0.3058
HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	0.6844
HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	ns	0.2558
HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	0.7057
HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.9137
HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	ns	0.9914
HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	ns	0.145
HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	0.3953
HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	ns	0.1926
HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	0.5219
HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.6955

HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	ns	0.6174
HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	0.8849
HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	ns	0.2652
HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	0.8038
HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.974
HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	>0.9999
HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	ns	0.6462
HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	>0.9999
HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	>0.9999
HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	ns	0.5666
HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	0.9997
HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	>0.9999
HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	0.928
HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.6496
HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.9998
Day 21		
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa)	ns	0.2215
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa)	ns	>0.9999
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa)	ns	0.8054
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa)	ns	0.0537
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa)	ns	0.052
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa)	ns	0.2209
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa)	ns	0.4186
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa)	ns	0.8093
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	ns	0.5724
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	ns	0.3462
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	0.6414
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	*	0.05
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	0.8314
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.4346
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa)	ns	0.2288
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa)	ns	0.4165
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa)	ns	0.0523
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa)	ns	0.0517
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa)	ns	0.0994
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa)	ns	0.0962
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa)	ns	0.133
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	ns	0.132
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	ns	0.0968

HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	0.1098
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	*	0.0495
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	0.1034
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.0965
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa)	ns	0.5479
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa)	*	0.0148
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa)	*	0.013
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa)	*	0.0415
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa)	ns	0.2038
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa)	ns	0.5384
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	ns	0.2089
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	ns	0.1285
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	0.397
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	**	0.0085
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	0.7396
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.2194
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa)	*	0.0173
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa)	*	0.0161
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa)	*	0.0362
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa)	ns	0.0602
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa)	ns	0.1296
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	ns	0.0746
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	*	0.0433
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	0.1067
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	**	0.0062
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	0.3496
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.064
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa)	ns	>0.9999
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa)	*	0.0145
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa)	ns	0.065
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa)	*	0.0391
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	*	0.0171
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	ns	0.0531
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	0.0611
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	ns	0.2976
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	0.2014
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.0664
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa)	*	0.0104
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa)	ns	0.0618

HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa)	*	0.0367
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	*	0.0143
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	*	0.0497
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	0.0584
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	ns	0.2844
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	0.1981
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.0633
HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa)	ns	0.9289
HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa)	ns	0.3451
HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	ns	0.2547
HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	ns	0.9641
HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	0.6719
HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	ns	0.1406
HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	0.9736
HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.9185
HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa) vs. HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa)	ns	0.9381
HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	ns	0.9901
HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	ns	>0.9999
HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	0.9997
HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	ns	0.1191
HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	>0.9999
HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	>0.9999
HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	ns	0.9998
HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	ns	0.8315
HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	0.9999
HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	*	0.0408
HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	>0.9999
HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.9517
HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	ns	0.9314
HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	>0.9999
HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	*	0.0341
HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	>0.9999
HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.9941
HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	0.9946
HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	ns	0.1065
HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	>0.9999
HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	>0.9999
HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	ns	0.0881
HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	>0.9999

HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.9999
HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	0.3893
HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.1199
HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	>0.9999
Day 28		
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa)	ns	0.0887
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa)	ns	0.8973
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa)	ns	0.4655
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa)	**	0.0025
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa)	**	0.0015
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa)	*	0.0108
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa)	*	0.013
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa)	ns	0.9982
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	ns	0.2129
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	ns	0.2207
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	**	0.0032
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	*	0.0127
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	0.1384
HA-ADH _{3.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.2095
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa)	ns	0.2687
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa)	ns	0.2282
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa)	*	0.018
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa)	*	0.0173
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa)	*	0.0224
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa)	*	0.0442
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa)	ns	0.0557
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	*	0.0148
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	*	0.0164
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	*	0.025
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	**	0.0064
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	**	0.0096
HA-ADH _{3.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	*	0.0133
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa)	ns	>0.9999
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa)	ns	0.061
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa)	ns	0.0601
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa)	ns	0.1631
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa)	ns	0.2372
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa)	ns	0.8603
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	ns	0.224

HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	ns	0.2533
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	0.1493
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	ns	0.052
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	0.0979
HA-ADH _{2.00} HA-Ox _{2.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.1733
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa)	*	0.0253
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa)	*	0.0242
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa)	*	0.0452
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa)	ns	0.0936
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa)	ns	0.5128
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	ns	0.0679
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	ns	0.0741
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	*	0.0459
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	**	0.0095
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	*	0.0396
HA-ADH _{1.67} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.0633
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa)	ns	>0.9999
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa)	*	0.0301
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa)	****	<0.0001
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa)	ns	0.0639
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	ns	0.0914
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	ns	0.0732
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	*	0.0216
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	ns	0.4367
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	0.3021
HA-ADH _{1.00} HA-Ox _{3.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.1566
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa)	*	0.0248
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa)	****	<0.0001
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa)	ns	0.0625
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	ns	0.0891
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	ns	0.0707
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	*	0.0156
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	ns	0.4361
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	0.3009
HA-ADH _{1.00} HA-Ox _{1.00} (40 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.1547
HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa)	ns	0.6017
HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa)	ns	0.2775
HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	ns	0.9758
HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	ns	0.8782

HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	0.9973
HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	ns	0.1094
HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	0.9713
HA-ADH _{3.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	>0.9999
HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa) vs. HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa)	ns	0.4403
HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	ns	>0.9999
HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	ns	>0.9999
HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	0.23
HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	ns	0.0885
HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	0.6834
HA-ADH _{3.00} HA-Ox _{2.33} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.998
HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa)	ns	0.5763
HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	ns	0.6545
HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	0.2314
HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	ns	0.0562
HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	0.2151
HA-ADH _{3.00} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.4379
HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa)	ns	>0.9999
HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	0.8422
HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	ns	0.1372
HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	0.8311
HA-ADH _{2.33} HA-Ox _{1.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	>0.9999
HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa) vs. HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa)	ns	0.6715
HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	ns	0.0946
HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	0.7148
HA-ADH _{2.00} HA-Ox _{2.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.9969
HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa)	ns	0.1566
HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	0.998
HA-ADH _{1.67} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.9992
HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa)	ns	0.7591
HA-ADH _{1.00} HA-Ox _{3.00} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.3106
HA-ADH _{1.00} HA-Ox _{1.67} (100 kDa) vs. HA-ADH _{1.00} HA-Ox _{1.00} (100 kDa)	ns	0.9872

Table S5. Summary of significance for 40 kDa HA mass change and 100 kDa HA mass change. A summary of significance for the mass change for both 40 kDa and 100 kDa is listed, a two-way ANOVA post-hoc Tukey's multiple comparisons was performed. n = 3; * p < 0.05, ** < p 0.01, *** p < 0.001, **** p < 0.0001.

Effect of Hydrogel Size on Gelation Time

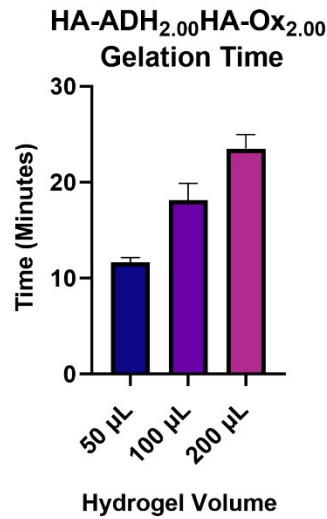


Figure S3. Gelation time of HA-ADH_{2.00}HA-Ox_{2.00} hydrogels of different volumes. Gelation times of HA-ADH_{2.00}HA-Ox_{2.00} hydrogels were evaluated at 50, 100, and 200 µL to determine the effect of hydrogel size on gelation time. As the hydrogel volume increased, the gelation time increased.

Compressive Modulus

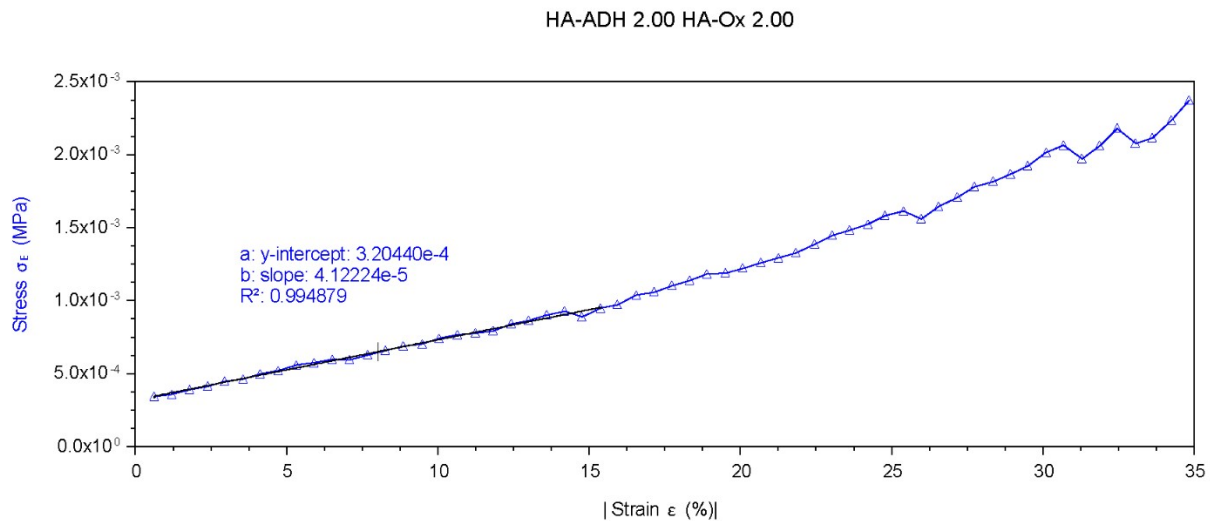


Figure S4. Stress-strain curves of HA hydrogels. Representative stress-strain curve of the centrally repeated HA hydrogel formulation HA-ADH_{2.00}HA-Ox_{2.00}. The slope of stress-strain curves at 15% strain was used to determine the compressive moduli of the HA hydrogels.

Hydrogel Morphology

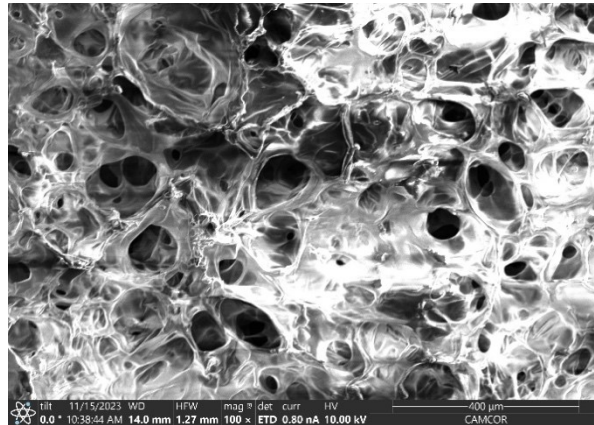


Figure S5. Scanning electron microscopy images of optimal hydrogel. Representative image of optimal hydrogel formulation, HA-ADH_{3.00}HA-Ox_{2.33}, depicting the porous morphology of the hydrazone-crosslinked HA hydrogel. Scale bar = 400 μ m.

Affibody Bioconjugation

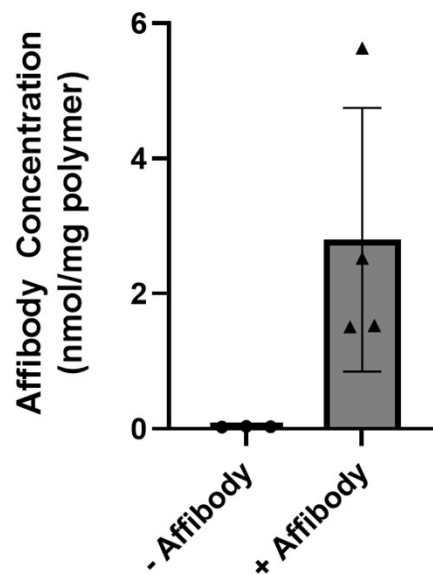


Figure S6. Quantification of affibody conjugation on HA-Nor-Ox-Affibody polymer. Pierce 660 Protein Assay was used to measure the amount of affibody conjugated per mg of HA-Nor-Ox-Affibody polymer and compared to HA-Nor-Ox polymer without conjugated affibodies as a control.