

Figure S1 ¹H NMR spectrum of metformin in DMSO-d₆ and D₂O

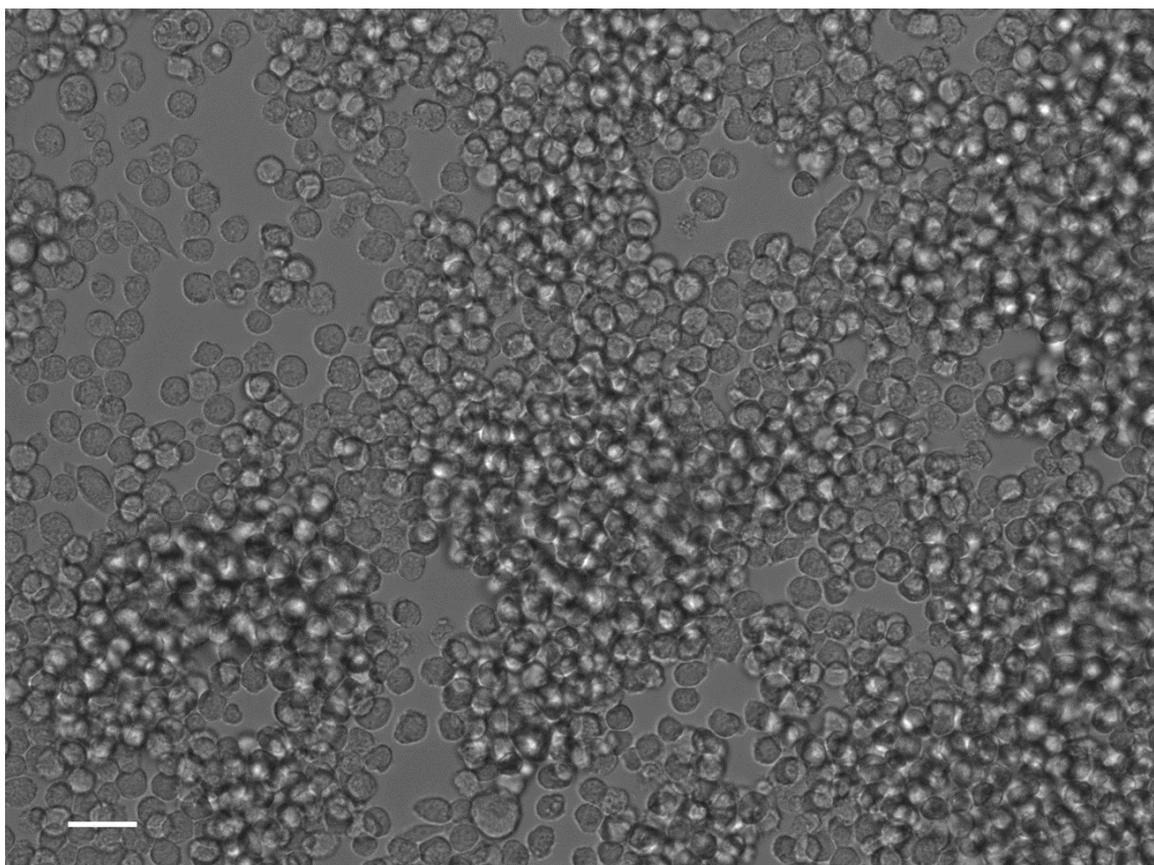


Figure S2 Brightfield image of RAW264.7 on TCPS without additives (negative control) (scalebar: 50 μm)

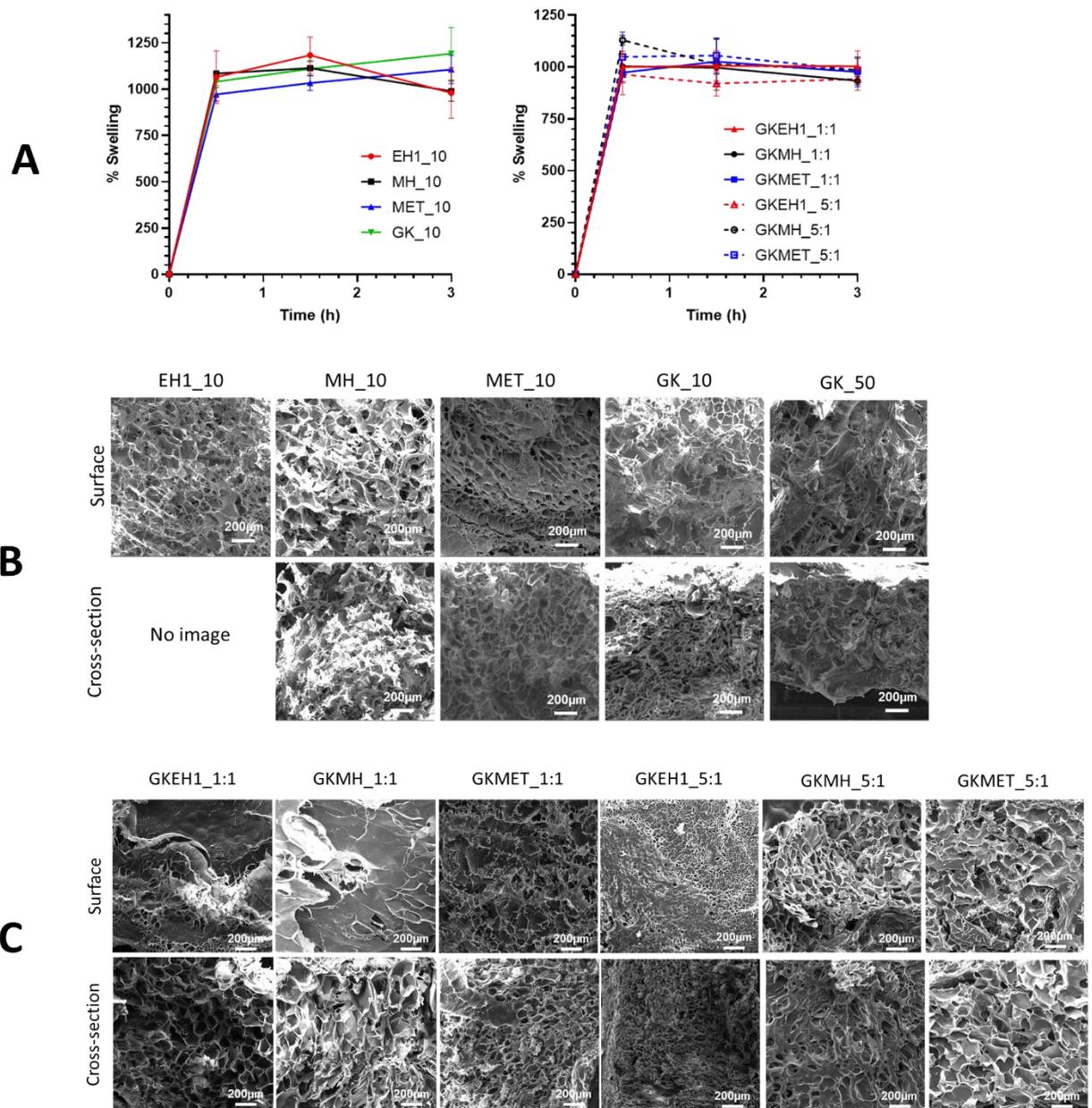


Figure S3 % swelling (A) of PSucMA hydrogels with additives and SEM images of single (B) and dual (C) loaded PSucMA hydrogels

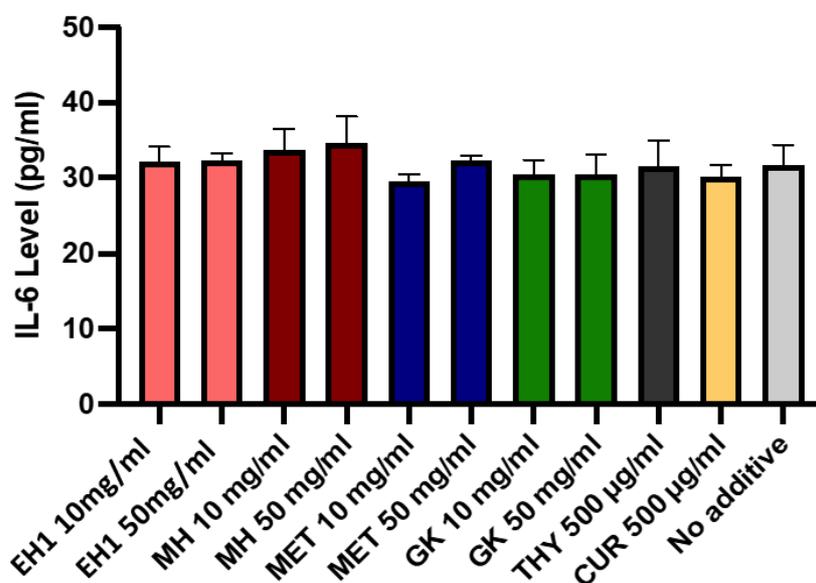


Figure S4 IL6 level induced by RAW 264.7 seeded on PSucMA hydrogels loaded with additives Values shown represent the mean \pm SD (n=3).

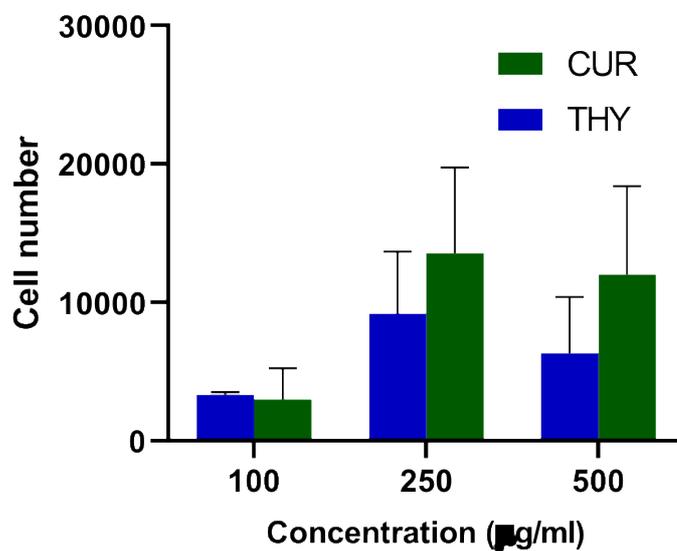


Figure S5 MTT proliferative assay of hydrogels loaded with THY and CUR Values shown represent the mean \pm SD (n=3).

Table S1 Number and size of the clusters formed on each hydrogel determined using particle size analyser in Image J software

Additives	Concentration	No. of cell clusters	No. of cell clusters allocated to each bin centre			Max size of clusters (μm^2)
			0-100 μm^2	100-200 μm^2	200-300 μm^2	
MH	10mg/ml	156	114	34	5	327.153
	50mg/ml	375	282	81	8	311.488
EH1	10mg/ml	74	40	28	4	373.746
	50mg/ml	290	227	45	10	767.575
MET	10mg/ml	55	48	6	0	419.937
	50mg/ml	125	90	31	2	674.59
THY	100 $\mu\text{g}/\text{ml}$	166	74	70	13	852.124
	250 $\mu\text{g}/\text{ml}$	227	149	56	16	327.756
	500 $\mu\text{g}/\text{ml}$	406	270	98	23	581.806
CUR	100 $\mu\text{g}/\text{ml}$	212	169	28	9	691.861
	250 $\mu\text{g}/\text{ml}$	123	104	15	2	606.709
	500 $\mu\text{g}/\text{ml}$	54	41	10	3	174.522
NO ADD		19	13	4	1	311.89