

Orange = Low cleavage rate, High Inference Uncertainty

Cleavage Rates (1/sec), Calculated Using Substrate Decay and Depletion Kinetic Model

	Protease Mix	Enzyme Concentration (nM)				Substrate Index Number																		
		1st Enzyme	2nd Enzyme	3rd Enzyme	4th Enzyme	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
MECM Media	MMP1	2.0E+00				6.87E-05	3.70E-06	4.72E-05	9.91E-07	4.61E-04	5.77E-06	8.87E-05	2.55E-05	5.25E-05	3.58E-05	4.15E-07	1.76E-05	3.32E-07	4.37E-07	1.16E-06	1.47E-05			
	MMP2	4.6E-01				5.71E-06	1.27E-07	1.40E-07	1.09E-07	4.09E-06	1.78E-07	4.79E-05	9.75E-08	3.14E-06	6.70E-06	3.13E-07	1.90E-06	5.37E-07	1.31E-07	6.61E-07	1.46E-07			
	MMP3	4.3E+00				1.33E-05	3.63E-06	1.69E-05	1.25E-06	1.09E-05	6.17E-06	3.21E-05	2.49E-06	3.60E-05	7.99E-05	1.41E-06	2.35E-06	2.53E-05	2.85E-05	1.60E-06	1.68E-06			
	MMP1	2.0E-01				3.56E-07	9.79E-08	3.85E-07	1.01E-07	2.26E-06	1.37E-07	5.75E-06	3.42E-08	5.83E-07	7.08E-07	2.15E-07	8.90E-07	1.30E-07	7.94E-08	2.48E-07	3.44E-07			
	MMP2	4.6E-02				1.06E-07	1.37E-07	1.12E-07	9.33E-08	1.76E-07	2.01E-07	7.14E-07	9.34E-08	7.67E-08	8.48E-08	1.40E-07	4.32E-08	1.05E-07	1.11E-07	3.29E-07	8.23E-08			
	MMP3	4.3E-01				2.05E-07	6.37E-08	7.45E-08	6.49E-08	2.26E-07	1.49E-07	2.52E-07	8.51E-08	8.60E-08	9.25E-08	2.15E-07	4.94E-08	1.06E-07	7.16E-08	3.23E-07	1.90E-07			
	MMP7	3.3E+00				1.54E-05	6.09E-06	2.28E-05	1.32E-04	6.75E-06	2.59E-05	4.90E-05	1.08E-06	2.70E-05	1.44E-05	4.15E-07	4.17E-05	2.39E-06	1.47E-05	9.08E-08	4.40E-07			
	MMP8	5.0E+00				7.53E-05	2.14E-05	2.10E-05	1.28E-05	4.10E-05	1.78E-06	1.37E-04	3.77E-06	7.42E-05	2.34E-04	1.98E-05	7.12E-06	1.98E-04	1.44E-04	1.24E-06	7.55E-06			
	MMP10	2.5E+00				9.77E-06	8.06E-07	1.08E-05	1.17E-06	1.92E-05	7.16E-06	1.80E-04	9.73E-06	1.47E-05	3.16E-05	1.14E-06	1.33E-05	1.62E-05	1.26E-04	7.52E-07	7.08E-06			
	MMP7	3.3E-01				2.73E-07	2.87E-07	3.30E-07	1.03E-06	2.62E-07	6.22E-06	8.57E-07	1.44E-07	3.35E-06	4.74E-07	1.95E-07	2.80E-07	1.68E-07	1.11E-07	6.19E-07	1.75E-07			
	MMP8	5.0E-01				2.10E-07	5.12E-08	1.92E-07	1.14E-07	2.23E-07	1.22E-07	1.86E-05	1.27E-07	1.25E-07	3.71E-06	1.73E-07	4.08E-08	4.80E-07	6.65E-07	3.21E-07	1.71E-07			
	MMP10	2.5E-01				2.32E-07	6.36E-08	6.37E-08	1.41E-07	8.87E-07	6.84E-08	6.00E-06	9.32E-08	7.42E-08	3.19E-07	1.73E-07	7.95E-08	1.84E-07	1.66E-07	4.18E-07	1.52E-07			
	MMP12	5.0E+00				2.79E-04	2.00E-05	4.13E-04	2.30E-04	2.42E-03	3.35E-05	4.11E-04	1.54E-04	1.06E-03	1.64E-03	1.56E-04	1.24E-04	4.45E-04	3.57E-04	4.26E-06	1.62E-04			
	MMP13	1.7E+00				2.15E-04	2.16E-06	1.64E-05	2.82E-06	5.19E-04	5.33E-06	9.03E-05	1.10E-04	6.01E-05	5.53E-04	2.09E-06	1.64E-05	6.79E-05	1.51E-04	1.43E-06	3.24E-05			
MMP12	5.0E-01				6.15E-06	9.93E-07	8.35E-07	1.77E-06	1.08E-06	1.03E-06	1.56E-06	1.84E-07	1.03E-06	3.74E-06	5.73E-07	1.32E-06	8.26E-07	4.57E-07	3.68E-06	1.93E-07				
MMP13	1.7E-01				4.39E-07	6.06E-07	3.75E-07	1.75E-06	3.92E-07	2.98E-07	1.94E-07	1.49E-07	3.98E-07	3.71E-07	1.53E-07	5.97E-08	2.85E-07	2.92E-07	1.23E-06	2.69E-07				
MMP9	7.9E+00				2.13E-03	1.63E-06	1.68E-04	8.11E-07	4.27E-03	9.06E-06	1.43E-04	9.40E-04	2.16E-04	8.99E-03	3.49E-06	5.32E-05	9.39E-05	4.30E-05	1.73E-06	4.48E-05				
MMP14	4.0E+00				1.01E-04	2.81E-06	3.27E-06	1.10E-06	8.93E-05	6.35E-06	2.56E-04	7.59E-06	4.45E-05	8.73E-07	3.22E-07	1.56E-05	7.79E-08	3.02E-07	1.19E-06	1.11E-06				
MMP9	7.9E-01				3.53E-05	4.96E-08	2.51E-06	8.88E-08	2.78E-05	6.25E-08	1.39E-05	3.69E-06	3.31E-06	1.12E-05	1.33E-07	8.40E-06	4.57E-07	4.70E-07	2.37E-07	3.66E-07				
MMP14	4.0E-01				1.73E-06	6.92E-08	5.75E-08	1.16E-07	1.79E-06	1.38E-07	6.01E-06	5.50E-08	4.07E-07	1.45E-07	1.84E-07	7.16E-08	1.26E-07	1.39E-07	4.78E-07	2.57E-07				
ADAM17	1.4E-01				1.30E-07	2.92E-07	1.55E-07	2.86E-07	3.89E-07	1.14E-07	7.98E-08	1.85E-07	1.38E-07	2.16E-07	7.99E-08	6.84E-08	2.24E-07	1.42E-07	5.31E-07	3.28E-07				
ADAM12	2.5E-01				7.46E-08	3.76E-06	1.12E-07	1.21E-07	1.33E-07	5.50E-06	9.35E-06	1.01E-07	4.18E-05	3.08E-07	9.22E-08	3.17E-08	8.87E-08	1.79E-07	5.16E-08	1.79E-07				
ADAM17	1.4E-02				1.24E-07	1.35E-07	1.00E-07	2.07E-07	1.43E-07	1.22E-07	7.59E-08	1.18E-07	2.10E-07	2.12E-07	8.51E-08	3.60E-08	2.51E-07	7.28E-08	7.72E-08	2.28E-07				
ADAM12	2.5E-02				5.12E-08	6.30E-07	7.85E-08	7.25E-08	6.01E-08	1.51E-06	1.99E-06	9.38E-08	8.69E-06	1.17E-07	5.22E-08	3.31E-08	1.60E-07	8.36E-08	7.27E-08	1.36E-07				

MMP1	3.9E-01				1.48E-05	8.95E-07	1.84E-06	2.81E-06	4.56E-05	6.98E-07	3.98E-06	2.66E-06	4.69E-06	5.27E-06	8.66E-07	8.82E-07	4.59E-07	1.10E-06	2.20E-07	1.67E-06	7.42E-07	1.93E-05	
MMP2	4.6E-05				6.49E-05	1.21E-06	4.78E-07	2.82E-06	4.01E-06	3.85E-07	1.71E-05	1.25E-06	3.61E-06	1.10E-06	1.38E-06	1.62E-06	5.50E-07	9.31E-07	1.97E-07	1.37E-06	7.98E-07	2.71E-05	
MMP3	8.6E-01				2.45E-06	1.21E-06	1.97E-06	3.12E-06	3.79E-06	5.25E-07	3.98E-06	7.09E-07	1.22E-05	1.64E-05	7.62E-07	4.09E-07	7.62E-06	8.24E-06	1.27E-07	1.28E-06	1.03E-05	1.23E-05	
MMP7	6.6E-01				3.65E-06	1.95E-06	1.67E-06	2.04E-06	1.79E-06	2.46E-07	5.24E-07	6.00E-07	4.44E-07	7.40E-07	9.43E-07	1.63E-06	5.79E-07	9.47E-07	1.93E-07	4.76E-07	7.31E-06		
MMP8	1.0E+00				3.72E-05	4.73E-06	1.30E-06	1.76E-06	7.77E-05	3.92E-07	1.35E-04	8.53E-07	3.31E-05	3.85E-05	4.66E-06	6.32E-07	4.46E-05	1.64E-05	3.32E-07	1.26E-06	4.24E-07	1.33E-04	
MMP1	3.9E-02				1.25E-06	2.43E-07	4.72E-07	1.82E-07	5.01E-06	2.48E-07	4.58E-07	2.22E-07	3.32E-07	6.96E-07	3.35E-08	1.08E-07	9.47E-08	1.31E-07	4.28E-08	1.31E-07			
MMP2	9.1E-03				6.78E-06	9.60E-08	2.76E-07	1.92E-07	2.48E-07	8.16E-08	3.04E-06	4.55E-08	2.05E-07	1.44E-07	2.78E-07	2.34E-07	9.53E-08	1.30E-07	8.20E-08	4.52E-08			
MMP3	8.6E-02				1.59E-07	1.26E-07	4.14E-07	9.21E-07	4.81E-08	9.17E-08	2.87E-07	2.16E-07	6.25E-07	2.46E-06	2.81E-07	2.19E-07	1.10E-06	9.92E-07	4.02E-08	5.59E-08			
MMP7	6.6E-02				2.79E-07	7.32E-08	3.26E-07	2.04E-07	1.54E-07	5.25E-08	6.58E-08	1.06E-07	8.85E-08	1.08E-07	4.74E-07	1.37E-07	1.87E-07	1.72E-07	2.41E-08	7.61E-07			
MMP8	1.0E-01				3.71E-06	2.84E-07	2.84E-07	1.13E-06	9.52E-06	7.94E-08	1.46E-05	1.78E-07	2.65E-06	1.87E-07	1.49E-07	4.96E-06	4.38E-07	4.88E-08	9.28E-08				
MMP9	1.6E-01				7.97E-05	7.51E-07	1.02E-06	1.80E-06	9.31E-05	4.43E-07	1.13E-05	1.46E-05	1.35E-05	3.95E-05	7.22E-07	1.24E-05	4.35E-06	1.43E-06	1.53E-07	1.38E-06	1.55E-06	1.04E-04	
MMP10	5.0E-01				2.65E-06	6.55E-07	5.50E-06	1.50E-06	1.06E-06	2.21E-05	3.41E-06	1.59E-06	2.64E-05	7.46E-07	1.38E-06	2.37E-05	2.11E-05	2.14E-07	1.45E-06	8.67E-06	5.08E-05		
MMP12	1.0E+00				2.11E-05	3.68E-06	9.94E-06	9.55E-06	8.78E-05	2.76E-06	5.44E-06	5.87E-05	5.88E-05	9.69E-06	5.40E-06	5.42E-05	3.64E-05	2.97E-06	4.70E-06	2.11E-05	1.36E-04		
MMP13	3.3E-01				6.37E-05	1.20E-06	4.82E-06	1.47E-06	1.74E-04	6.57E-07	2.64E-05	8.00E-05	6.19E-05	7.84E-05	1.34E-06	1.85E-05	1.78E-04	1.29E-05	9.77E-05	1.55E-05	3.21E-06	2.74E-04	
MMP14	8.0E-01				6.86E-05	9.53E-07	5.37E-07	1.56E-06	6.95E-05	1.12E-06	3.84E-05	1.59E-06	1.24E-06	4.44E-07	8.23E-07	1.54E-06	4.01E-07	9.39E-07	1.17E-07	9.11E-07	1.51E-06	1.24E-04	
MMP9	1.6E-02				2.04E-05	1.27E-06	6.26E-07	3.45E-06	2.79E-05	9.65E-07	3.18E-06	2.66E-06	2.57E-06	8.41E-06	1.31E-06	2.20E-06	1.56E-06	2.28E-06	4.29E-07	2.04E-06			
MMP10	5.0E-02				1.78E-06	1.23E-06	1.36E-06	3.37E-06	4.70E-06	1.06E-06	7.16E-06	1.66E-06	1.75E-06	5.61E-06	1.25E-06	1.28E-06	4.32E-06	6.14E-06	4.24E-07	2.10E-06			
MMP12	1.0E-01				4.71E-06	1.65E-06	3.01E-06	4.55E-06	2.22E-05	1.25E-06	2.73E-05	1.88E-06	1.27E-05	1.98E-05	4.08E-06	1.77E-06	1.13E-05	8.21E-06	1.01E-06	6.22E-06			
MMP13	3.3E-01				1.78E-05	1.49E-06	1.30E-06	3.48E-06	2.01E-04	1.18E-06	7.96E-06	1.04E-06	1.04E-06	1.04E-04	1.45E-06	3.40E-06	2.85E-05	4.52E-06	5.73E-07	2.10E-06			
MMP14	8.0E-02				2.15E-05	1.39E-06	5.32E-07	3.54E-06	1.57E-05	1.11E-06	7.81E-06	1.44E-06	2.82E-06										