



Research article

Insights into protease sequence similarities by comparing substrate sequences and phylogenetic dynamics

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Supplementary

Table S1. The indices of 68 proteases in MEROPS database.

	Protease	MEROPS ^a	Number ^b		Protease	MEROPS ^a	Number ^b
1	Pepsin A	A01.001	387	35	LAST MAM Peptidase	M12.033	429
2	Cathepsin D	A01.009	727	36	Neprilysin	M13.001	102
3	Cathepsin E	A01.010	1287	37	Insulysin	M16.002	61
4	Rhizopuspepsin	A01.012	240	38	Peptidyl-Lys Metallopeptidase	M35.004	1869
5	Aspergillopepsin	A01.016	156	39	Chymotrypsin A	S01.001	711
6	Necepsin 1	A01.053	117	40	Granzyme B	S01.010	1568
7	HIV-1 Retropepsin	A02.001	632	41	DESC1 peptidase	S01.021	96
8	RC1339 g.p.	A32.002	746	42	Elastase 2	S01.131	364
9	Cathepsin L	C01.032	1065	43	Cathepsin G	S01.133	244
10	Cathepsin L1	C01.033	192	44	Granzyme A	S01.135	286
11	Cathepsin S	C01.034	732	45	Granzyme B rodent	S01.136	341
12	Cathepsin K	C01.036	121	46	Granzyme M	S01.139	716
13	Falcipain 2	C01.046	137	47	Chymase	S01.140	100
14	Cathepsin B	C01.060	589	48	Trypsin 1	S01.151	9014
15	Falcipain 3	C01.063	114	49	Thrombin	S01.217	136
16	Calpain 1	C02.001	100	50	Hepsin	S01.224	103
17	Calpain 2	C02.002	156	51	Plasmin	S01.233	121
18	Caspase 1	C14.001	170	52	KLK 4	S01.251	112
19	Caspase 3	C14.003	571	53	Glutamyl Peptidase I	S01.269	1045
20	Caspase 7	C14.004	149	54	HtrA2 peptidase	S01.278	56
21	Caspase 6	C14.005	189	55	Lysyl Peptidase	S01.280	778
22	Thimet Oligopeptidase	M03.001	46	56	Matriptase	S01.302	99
23	Neurolysin	M03.002	44	57	Lactocepin 1	S08.019	101
24	Thermolysin	M04.001	260	58	Kexin	S08.070	171
25	MMP 8	M10.002	104	59	Furin	S08.071	172
26	MMP 2	M10.003	2502	60	PCSK2 Peptidase	S08.073	166
27	MMP 9	M10.004	340	61	PCSK4 Peptidase	S08.074	94
28	MMP 3	M10.005	171	62	PCSK6 Peptidase	S08.075	94
29	MMP 7	M10.008	174	63	PCSK5 Peptidase	S08.076	116
30	MMP 12	M10.009	171	64	PCSK7 Peptidase	S08.077	102
31	MMP 13	M10.013	138	65	KPC2-type Peptidase	S08.109	104
32	Membrane-MMP 1	M10.014	127	66	Lactocepin 3	S08.116	158
33	Astacin	M12.001	206	67	Signal Peptidase 1	S26.001	297
34	Meprin	M12.002	766	68	Signalase 21kDa	S26.010	316

^aThe indices of 68 proteases in MEROPS database.

^bThe number of substrate sequences which have been removed redundancy.