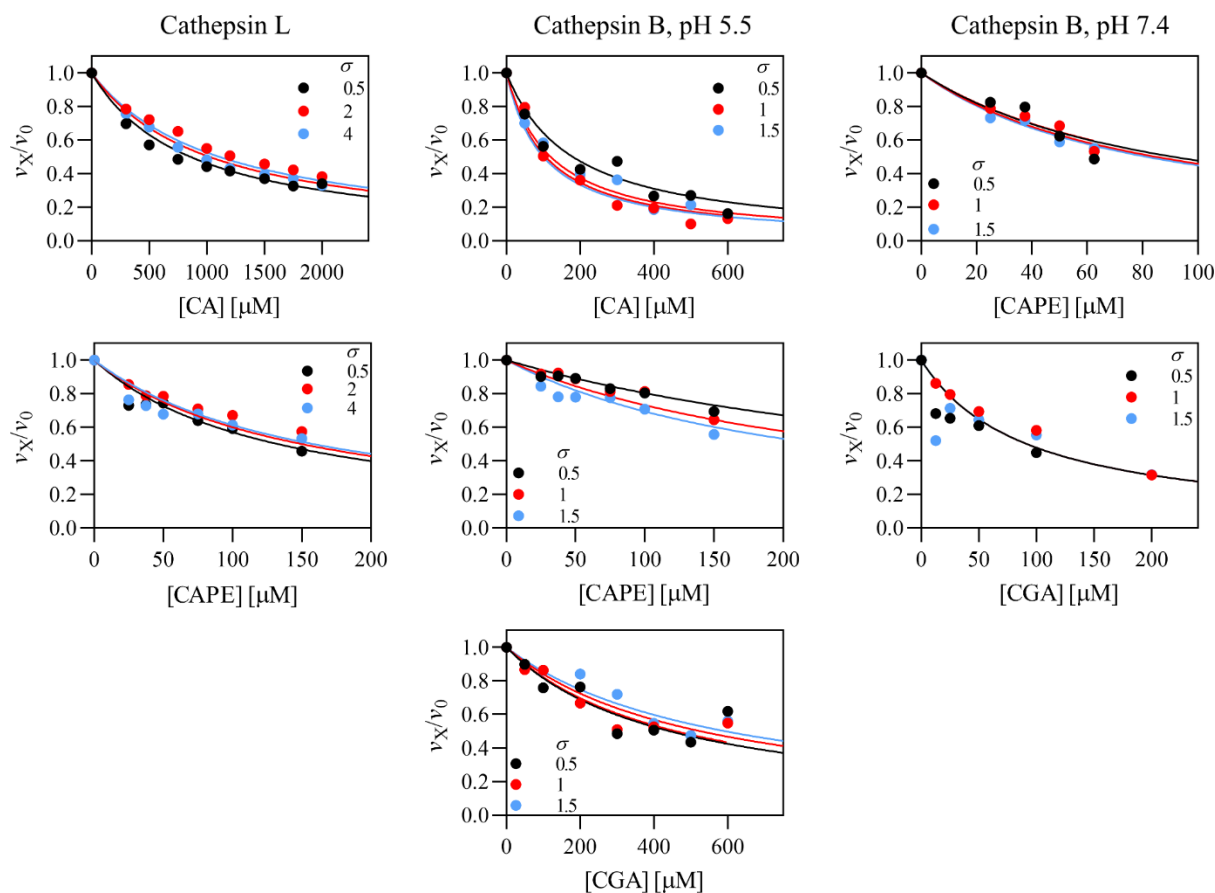


Inhibition of human cathepsins B and L by caffeic acid and its derivatives

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Supplementary Figure S1: Titrations of cathepsins B and L with caffeic acid (CA), caffeic acid phenethyl ester (CAPE) and chlorogenic acid (CGA). Titration curves were recorded at three different substrate concentrations. σ equals $[S]/K_m$. Both cathepsins were assayed in 50 mM Na-acetate **pH 5.5** containing 1 mM EDTA and 2.5 mM DTT. Additionally, cathepsin B was assayed in 20 mM Na-phosphate buffer **pH 7.4** containing 1 mM EDTA and 2.5 mM DTT. The substrates used were Z-Phe-Arg-AMC for cathepsin B and Z-Leu-Arg-AMC for cathepsin L, respectively. All assays were performed at 25 ± 1 °C.

Supplementary Table S1: List of tested compounds and their commercial sources.

Compound	Source	Product no.
Cinnamic acid	Merck (Germany)	C80857
<i>o</i> -Coumaric acid	Merck (Germany)	H22809
<i>m</i> -Coumaric acid	Merck (Germany)	H23007
<i>p</i> -Coumaric acid	Merck (Germany)	C9008
2,4,-Dihydroxycinnamic acid	Merck (Germany)	663158
Caffeic acid ²	Merck (Germany)	C0625
Hydrocaffeic acid ¹	Merck (Germany)	102601
Ferulic acid	Merck (Germany)	128708
Sinapinic acid	Merck (Germany)	D7927
Caffeic acid phenethyl ester ²	Carl Roth (Germany)	5465
Chlorogenic acid ²	Merck (Germany)	C3878