

# Cathepsins

Cathepsins are proteases found in all animals as well as other organisms. There are approximately a dozen members in this family, distinguished by structure, catalytic mechanism, and their protein targets. The cysteine protease class comprises of cathepsins B, L, H, K, S, and O. The aspartyl protease class is composed of cathepsins D and E. Most of the members become activated at the low pH found in lysosomes. There are, however, exceptions such as cathepsin K, which works extracellularly after secretion by osteoclasts in bone resorption. Cathepsins have a vital role in mammalian cellular turnover, e.g. bone resorption. Cysteine cathepsins are highly upregulated in a wide variety of cancers. In addition, cathepsins are also implicated in numerous other diseases like Alzheimer's disease, stroke, arthritis, COPD, chronic periodontitis, pancreatitis, polycystic kidney disease and several ocular diseases including keratoconus, retinal detachment, AMD, glaucoma etc. BioVision is proud to offer numerous assay kits, active recombinant enzymes/proteins, antibodies, blocking peptides and inhibitors for research in these and additional areas related to cathepsins.

## Assay Kits

Product Name	Cat. No.	Size
Cathepsin B (CTSB) Inhibitor Screening Kit (Fluorometric)	K147	100 assays
Cathepsin B Activity Fluorometric Assay Kit	K140	100 assays
Cathepsin D Activity Fluorometric Assay Kit	K143	100 assays
Cathepsin D Inhibitor Screening Kit (Fluorometric)	K148	100 assays
Cathepsin G Activity Fluorometric Assay Kit	K146	100 assays
Cathepsin H Activity Fluorometric Assay Kit	K145	100 assays
Cathepsin K Activity Fluorometric Assay Kit	K141	100 assays
Cathepsin K Inhibitor Screening Kit (Fluorometric)	K150	100 assays
Cathepsin L Activity Fluorometric Assay Kit	K142	100 assays
Cathepsin S Activity Fluorometric Assay Kit	K144	100 assays
Cathepsin S Inhibitor Screening Kit (Fluorometric)	K149	100 assays

## Enzymes

Product Name	Cat. No.	Size
Cathepsin B (active, human)	1021	5 µg
Cathepsin D (active, human)	1022	5 µg
Cathepsin H (active, human)	1023	5 µg
Cathepsin K, Active, human recombinant	7600	5 µg, 50 µg
Cathepsin K, Active, mouse recombinant	7597	5 µg, 50 µg
Cathepsin K, Active, rat recombinant	7598	5 µg, 50 µg
Cathepsin L, human recombinant	1135	5 µg, 5 µg, 1 mg
Human CellExp™ Cathepsin S, human recombinant	7277	10 µg, 50 µg
Procathepsin K, human recombinant	1026	10 µg, 50 µg, 1 mg
Procathepsin K, mouse recombinant	1027	10 µg, 50 µg, 1 mg
Procathepsin K, rat recombinant	1029	10 µg, 50 µg, 1 mg

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## Antibodies/Blocking Peptides

Product Name	Cat. No.	Size
Cathepsin B Antibody	3190	30 µg, 100 µg
Cathepsin B Blocking Peptide	3190BP	50 µg
Cathepsin F Antibody	3371	30 µl, 100 µl
Cathepsin F Blocking Peptide	3371BP	50 µg
Cathepsin G Antibody	3370	200 µl
Cathepsin K Antibody	3368	30 µg, 100 µg
Cathepsin K Antibody	3588	30 µg, 100 µg
Cathepsin K Blocking Peptide	3368BP	50 µg
Cathepsin K Blocking Peptide	3588BP	50 µg
Cathepsin L Blocking Peptide	3192BP	50 µg
Cathepsin L (Cleaved) Antibody	3741	30 µg, 100 µg
Cathepsin L (Cleaved) Blocking Peptide	3741BP	50 µg
Cathepsin L Antibody	3192	30 µg, 100 µg
Cathepsin S Antibody	3366	100 µg
Cathepsin S Antibody	3366R	30 µg, 100 µg
Cathepsin S Blocking Peptide	3366RBP	50 µg
Cathepsin V Antibody	3712	30 µg, 100 µg
Cathepsin V Antibody (Clone BV55-1)	3411	100 µg
Cathepsin V Blocking Peptide	3712BP	50 µg
Cathepsin W Antibody (Clone BV39-2B)	3412	100 µg

## Inhibitors

Product Name	Cat. No.	Size	CAS Number
Cathepsin B&L Inhibitor Z-Phe-Phe-FMK	1126	20 µl (10 mM)	108005-94-3
Cathepsin G Inhibitor	1982	1 mg	429676-93-7
Z-FA-FMK	1986	1 mg, 5 mg	105637-38-5

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