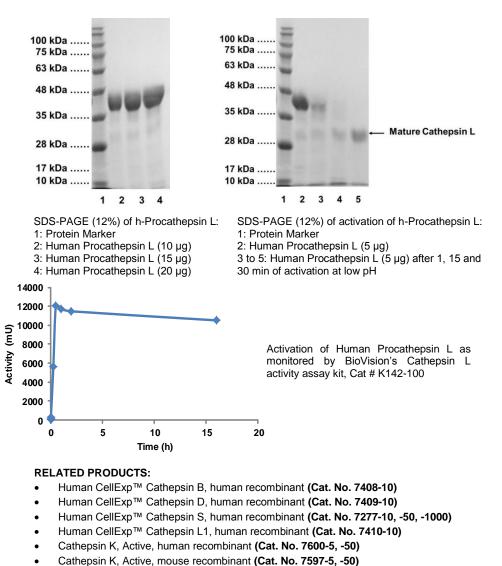
## **BioVision**

## **Procathepsin L, Human Recombinant**

CATALOG #:	7581-55 μg7581-100100 μg7581-10001 mg
SOURCE:	E. coli
ALTERNATIVE NAMES:	CTSL, CTSL1
FORMULATION:	1 mg/ml in 25 mM Na <sub>2</sub> HPO <sub>4</sub> , 500 mM NaCl, pH 7.0.
PURITY:	≥90% by SDS-PAGE
MOL. WT.:	39.4 kDa (18-333 aa + N-terminal poly-his tag)
STORAGE CONDITIONS:	Store at -80°C, stable for at least 1 year as supplied. After dilution to 0.2 mg/ml, aliquot and store at -80°C. Avoid repeated freezing and thawing cycles.
BACKGROUND:	Cathepsin L is a lysosomal protease that can be secreted from the cell and is implicated to play a role in protein degradation, arthritis, apoptosis, and cancer.
ACTIVITY ASSAY:	BioVision's Procathepsin L can be auto-catalytically activated to mature Cathepsin L (~24 kDa) by adding an equal volume of 0.2 M NaOAc, 5 mM EDTA pH 4.0 containing fresh 5 mM DTT at RT. The enzyme is fully activated within 30 min of incubation at RT. After activation mature Cathepsin L is highly auto-proteolytic at pH 4.0, and care must be taken to avoid self-proteolysis. If the activated enzyme is not used immediately, methylmethanthiosulfonate (1mM final concentration; MeS-SO2Me; MMTS) could be added and sample should be frozen at -80°C. The activity can be then restored by adding L-cysteine (3 M excess over MMTS) to the enzyme solution.

SPECIFIC ACTIVITY: > 10000 mU/mg (1 U = digestion of 1 μmole of Z-Phe-Arg-AFC substrate (K142-100) per minute at 37°C in 50 mM Sodium Acetate, 100 mM NaCl, pH 5.5).

## . For Research Use Only! Not to be used in humans.



- Cathepsin K, Active, rat recombinant (Cat. No. 7598-5, -50)
- Cathepsin B (active, human) (Cat. No. 1021-5)
- Cathepsin D (active, human) (Cat. No. 1022-5)
- Cathepsin H (active, human) (Cat. No. 1023-5)
- Procathepsin K, human recombinant (Cat. No. 1026-10, -50, -1000)
- Procathepsin K, mouse recombinant (Cat. No. 1027-10, -50, -1000)



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