

Recombinant Human Cathepsin L2, His-tagged

Cat. No. CTSL2-681H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human procathepsin V produced in <i>insect cells</i> fused to a His-tag. 37kDa (SDS-PAGE).
Species	Human
Source	Insect Cells
Description	Recombinant glycosylated procathepsin V cloned from human cDNA and purified as full-length proenzyme. Can be activated in one step. Cathepsin V, a member of the papain family of cysteine proteases, has 78% identity to cathepsin L, but unlike cathepsin L is not widely expressed, being localized to thymus, testis, corneal epithelium, and macrophages. It is a strong elastase, also cleaving proteins such as the invariant chain (Ii), plasminogen, and kininogen. It is implicated in disease states such as cancer, angiogenesis, atherosclerosis, and myasthenia gravis.
Source/Host	insect cells.
Application	Study enzyme kinetics, cleave target substrates and screen for inhibitors.
Concentration	0.5mg/ml.
Purity	≥90%.
Specific Activity	436 U/μg protein. One unit will hydrolyze one pmole Z-Leu-Arg-AMC substrate (Prod. No. BML-P229, 25 μM) per minute at 25°C, in 25mM NaOAc pH 5.5, 100mM NaCl,

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	1.0mM DTT.
Formulation	Liquid. In 25mM TRIS-HCl, pH 8.0, containing 100mM sodium chloride, 0.05% Tween-20 and 10% glycerol.
Long Term Storage	-80°C.
Use/Stability	Avoid extended periods unfrozen. This enzyme is stable for 6 months when stored as received under the above conditions.
Handling	After opening, prepare aliquots and store at -80°C. Avoid freeze/thaw cycles.

GENE INFORMATION

Gene Name	CTSL2 cathepsin L2 [Homo sapiens]
Synonyms	CTSL2; cathepsin L2; CTSU; CTSV; CATL2; MGC125957; EC3.4.22.43; Cathepsin L2; Cathepsin V; Cathepsin U; UNQ268/PRO305
Gene ID	1515
mRNA Refseq	NM_001333
Protein Refseq	NP_001324
MIM	603308
UniProt ID	O60911
Chromosome Location	9q22.2

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Pathway

Lysosome

Function

cysteine-type endopeptidase activity; peptidase activity; protein binding

**PDB rendering based
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