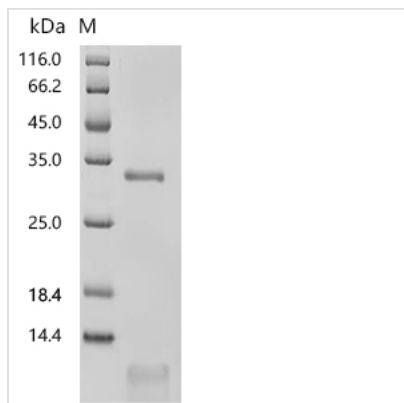




Recombinant Human Procathepsin L (CTSL) (Active)

Product Code	CSB-MP006193HU(A4)
Abbreviation	Recombinant Human CTSL protein (Active)
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P07711
Form	Lyophilized powder
Storage Buffer	Lyophilized from a 0.2 μm sterile filtered 50 mM NaAc, 0.5 M NaCl, 6% Trehalose, pH 4.5
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Biological Activity	Measured by its ability to cleave the fluorogenic peptide substrate Z-LR-AMC, The specific activity is >32000 pmol/ min/μg.
Purity	≥ 90% as determined by SDS-PAGE.
Sequence	TLTFDHSLEAQWTKWKAMHNRLYGMNEEGWRRRAVWEKNMKMIELHNQEYR EGKHSFTMAMNAFGDMTSEEFRQVMNGFQNRKPRKGKVFQEPLFYEAPRSV DWREKGYVTPVKNQGQCGSCWAFSATGALEGQMFRKTGRLISLSEQNLVDC SGPQGNEGCNGGLMDYAFQYVQDNGGLDSEESYPYEATEESCKYNPKYSVA NDTGFVDIPKQEKALMKAVATVGPISVAIDAGHESFLFYKEGIYFEPDCSSEDM DHGVLVVGYGFEFESTSDNNKYWLVKNSWGEWGMGGYVKMAKDRRNHCGI ASAASYPTV
Source	Mammalian cell
Target Names	CTSL
Expression Region	18-333aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	C-terminal 10xHis-tagged
Mol. Weight	37.2 kDa
Protein Length	Full Length
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Enzyme	Human CTSL (CSB-MP006193HU(A4))	0.00390625µg/well
Substrate	Z-Leu-Arg-AMC (R&D, Catalog # E5008)	50µM
Reaction system	/	100µl
Reaction conditions	37°C and 20min in dark	/
Buffer	50 mM MES, 5 mM DTT, 1 mM EDTA, 0.005% (w/v) Brj-35, pH 6.0	/
Enzyme activity unit (U/mg)	>32000 pmol/ min/µg	/

Activity

Measured by its ability to cleave the fluorogenic peptide substrate Z-LR-AMC, The specific activity is >32000 pmol/ min/µg.

Endotoxin

Less than 1.0 EU/ug as determined by LAL method.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.