

## Recombinant Mouse Cathepsin L/CTSL Protein (His Tag)

Catalog No. PKSM041247

### Description

<b>Synonyms</b>	Cathepsin L1; Major excreted protein; p39 cysteine proteinase; Cts11;1190035F06Rik
<b>Species</b>	Mouse
<b>Expression_host</b>	Human Cells
<b>Sequence</b>	Thr18-Asn334
<b>Accession</b>	P06797
<b>Mol_Mass</b>	36.8 kDa
<b>AP_Mol_Mass</b>	13-40kDa
<b>Tag</b>	C-6His

### Properties

<b>Purity</b>	> 95 % as determined by SDS-PAGE
<b>Endotoxin</b>	< 1.0 EU per µg as determined by the LAL method.
<b>Storage</b>	Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from a 0.2 µM filtered solution of 20mM PB, 150mM NaCl, pH7.4.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

### Background

Mouse Cathepsin L is a lysosomal cysteine proteinase which is a member of the peptidase C1 family. This protein is a dimer composed of disulfide-linked heavy and light chains, both produced from a single protein precursor. Cathepsin L plays a major role in intracellular protein catabolism. Its substrates include collagen and elastin, as well as alpha-1 protease inhibitor, a major controlling element of neutrophil elastase activity. Cathepsin L has been implicated in several pathologic processes, including myofibril necrosis in myopathies and in myocardial ischemia, and in the renal tubular response to proteinuria.

## SDS-PAGE

