

## Recombinant Mouse CSTD (C-6His)

Catalog No: CC21

Description Recombinant Mouse Cathepsin D is produced by our Mammalian expression system and the target gene

encoding Ile21-Leu410 is expressed with a 6His tag at the C-terminus.

Source Human Cells

Alternative name Cathepsin D; CTSD; CPSD

Accession No. P18242

Predicted Molecular Weight

43.9kDa

AP Molecular Weight

56kDa, reducing conditions.

Formulation Lyophilized from a 0.2 µm filtered solution of 20mM MES, 150mM NaCl, pH5.5.

Reconstitution Always centrifuge tubes before opening. Do not mix by vortex or pipetting.

It is not recommended to reconstitute to a concentration less than 100µg/ml.

Dissolve the lyophilized protein in distilled water.

Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Quality Control Purity: Greater than 95% as determined by reducing SDS-PAGE.

Endotoxin: Less than 0.1 ng/μg (1 IEU/μg) as determined by LAL test.

**Shipping** The product is shipped at ambient temperature.

Upon receipt, store it immediately at the temperature listed below.

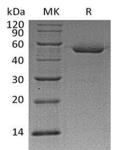
Storage Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.

Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Background** 

CTSD localizes to the lysosome and consists of a light chain and a heavy chain. CTSD is expressed in epithelial cells as well as in macrophages.CTSD is a lysosomal aspartyl protease that depends critically on protonation of its active site Asp residue and gets activated at pH 5 in endosome of hepatocytes. It has been suggested to facilitate cancer cell migration and invasion by digesting the basement membrane, extracellular matrix and xonnective tissue. In addition, CTSD has been used as a breast cancer tumor

marker.



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