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Datasheet for ABIN7534300  
**Cathepsin D Protein (CTSD) (His tag)**

### Overview

Quantity:	100 µg
Target:	Cathepsin D (CTSD)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Cathepsin D protein is labelled with His tag.

### Product Details

Purpose:	Active Recombinant Human Cathepsin D Protein
Sequence:	LVRIPLHKFT SIRRTMSEVG GSVEDLIAKG PVSKYSQAVP AVTEGPIPEV LKNYMDAQYY GEIGIGTPPQ CFTVVFDTGS SNLWVPSIHC KLLDIACWIH HKYNSDKSST YVKNGTSTFDI HYGSGSLSGY LSQDTVSVPC QSASSASALG GVKVERQVFG EATKQPGITF IAAKFDGILG MAYPRISVNN VLPVFDNLMQ QKLVDQNIFS FYLSRDPDAQ PGGELMLGGT DSKYYKGSLS YLVNTRKAYW QVHLDQVEVA SGLTLCKEGC EAIVDTGTSL MVGPVDEVRE LQKAIGAVPL IQGEYMIPCE KVSTLPAITL KLGKGYKLS PEDYTLKVSQ AGKTLCLSGF MGMDIPPPSG PLWILGDVFI GRYYTVFDRD NNRVGFAEAA RL
Specificity:	Leu21-Leu412
Purity:	> 95 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	< 0.1 EU/µg of the protein by LAL method.

## Product Details

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**Biological Activity Comment:** Measured by its ability to cleave the fluorogenic peptide substrate, Mca-PLGL-Dpa-AR-NH<sub>2</sub>. The specific activity is >747 pmol/min/μg.

## Target Details

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**Target:** Cathepsin D (CTSD)

**Alternative Name:** Cathepsin D ([CTSD Products](#))

**Background:** Description: Cathepsin D (CTSD), a well known lysosomal aspartyl protease and belongs to the peptidase C1 family. It is expressed in most cells and overexpressed in breast cancer cells. It is a major enzyme in protein degradation in lysosomes, and also involved in the presentation of antigenic peptides. cathepsin D is essential for proteolysis of proteins regulating cell growth and tissue homeostasis. CTSD secreted from human prostate carcinoma cells are responsible for the generation of angiostatin, a potent endogenous inhibitor of angiogenesis, suggesting its contribution to the prevention of tumor growth and angiogenesis-dependent growth of metastases.

Name: CLN10,CPSD,HEL-S-130P,Cathepsin D,CTSD

**Gene ID:** 1509

**UniProt:** [P07339](#)

**Pathways:** [Peptide Hormone Metabolism](#)

## Application Details

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**Restrictions:** For Research Use only

## Handling

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**Format:** Lyophilized

**Reconstitution:** Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

**Buffer:** Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

**Storage:** -20 °C,-80 °C

**Storage Comment:** Store the lyophilized protein at -20°C to -80 °C for long term.

## Handling

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After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.