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Datasheet for ABIN1880638

## Cathepsin D Protein (CTSD) (AA 21-410) (His tag)

### Overview

Quantity:	50 µg
Target:	Cathepsin D (CTSD)
Protein Characteristics:	AA 21-410
Origin:	Mouse
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Cathepsin D protein is labelled with His tag.

### Product Details

Purpose:	Recombinant Mouse Cathepsin D/CSTD (C-6His)
Sequence:	<p>IIRIPLRKFT SIRRTMTEVG GSVEDLILKG PITKYSMQSS PKTTEPVSEL LKNYLDAQYY</p> <p>GDIGIGTPPQ CFTVVFDTG SNLWVPSIHC KILDIACWVH HKYNSDKSST YVKNGTSEFI</p> <p>HYGSGSLSGY LSQDTVSVPC KSDQSKARGI KVEKQIFGEA TKQPGIVFVA AKFDGILGMG</p> <p>YPHISVNNVL PVFDNLMQQK LVDKNIFSFY LNRDPEGQPG GELMLGGTDS KYHGHGELSYL</p> <p>NVTRKAYWQV HMDQLEVGNE LTLCGGCEA IVDTGTSLLV GPVEEVKELQ KAIGAVPLIQ</p> <p>GEYMIPCEKV SSLPTVYLKL GGKNYELHPD KYILKVSQGG KTICLSGFMG MDIPPPSGPL</p> <p>WILGDVFIGS YYTVFDRDNN RVGFANAVVL VDHHHHHH</p>
Characteristics:	Recombinant Mouse Cathepsin D is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Ile21-Leu410) of Mouse Cathepsin D fused with a polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.

## Product Details

Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

## Target Details

Target:	Cathepsin D (CTSD)
Alternative Name:	Cathepsin D ( <a href="#">CTSD Products</a> )
Sub Type:	Fusionprotein
Background:	<p>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 connective tissue. In addition, CTSD has been used as a breast cancer tumor marker.</p> <p>Alternative Names: Cathepsin D, also known as CTSD and CPSD, is a member of the peptidase A1 family.</p>
Molecular Weight:	43.9 kDa
UniProt:	<a href="#">P18242</a>
Pathways:	<a href="#">Peptide Hormone Metabolism</a>

## Application Details

Restrictions:	For Research Use only
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## Handling

Format:	Lyophilized
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH<sub>2</sub>O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM MES, 150 mM NaCl, pH 5.5.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C

## Handling

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Storage Comment:	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.
Expiry Date:	3 months

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