

Datasheet for ABIN7597375

**Cathepsin D Protein (CTSD) (AA 21-412) (His tag)**[Go to Product page](#)

## Overview

Quantity:	10 µg
Target:	Cathepsin D (CTSD)
Protein Characteristics:	AA 21-412
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Cathepsin D protein is labelled with His tag.

## Product Details

Purpose:	Recombinant human CTSD Protein with C-terminal 10xHis tag
Sequence:	CTSD(Leu21-Leu412) 10xHis tag
Purity:	The purity of the protein is greater than 95 % as determined by SDS-PAGE and Coomassie blue staining.

## Target Details

Target:	Cathepsin D (CTSD)
Alternative Name:	CTSD ( <a href="#">CTSD Products</a> )
Background:	<p>CPSD, CLN10, HEL-S-130P</p> <p>This gene encodes a member of the A1 family of peptidases. The encoded preproprotein is proteolytically processed to generate multiple protein products. These products include the cathepsin D light and heavy chains, which heterodimerize to form the mature enzyme. This</p>

## Target Details

enzyme exhibits pepsin-like activity and plays a role in protein turnover and in the proteolytic activation of hormones and growth factors. Mutations in this gene play a causal role in neuronal ceroid lipofuscinosis-10 and may be involved in the pathogenesis of several other diseases, including breast cancer and possibly Alzheimer's disease. [provided by RefSeq, Nov 2015]

**Molecular Weight:** predicted molecular mass of 44.0 kDa after removal of the signal peptide. The apparent molecular mass of CTSD-His is 35-55 kDa due to glycosylation.

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

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

## Application Details

**Application Notes:** Extracellular Domain Proteins (ECD) can be used as:

- Immunogens for antibody drug development
- Reagents used for CAR-T positive cell monitoring
- Reagents for antibody screening and functional testing
- Reagents for antibody affinity measurement

**Comment:** The protein was made using HEK293 mammalian cell secretion expression system to ensure the close-to-native structures and post-translational modifications of the target protein.

**Restrictions:** For Research Use only

## Handling

**Format:** Lyophilized

**Buffer:** Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before lyophilization.

**Storage:** -20 °C, -80 °C

**Storage Comment:** Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing).  
Lyophilized proteins are shipped at ambient temperature.

**Expiry Date:** 12 months