

Human Cathepsin D Protein, His Tag (active enzyme, MALS verified)

Catalog # CAD-H52H3



Synonym

CTSD,Cathepsin D,CPSD,CLN10

Source

Human Cathepsin D Protein, His Tag(CAD-H52H3) is expressed from human 293 cells (HEK293). It contains AA Leu 21 - Leu 412 (Accession # [P07339-1](#)). Predicted N-terminus: Leu 21

Molecular Characterization

Cathepsin D(Leu 21 - Leu 412)  
P07339-1

Poly-his

This protein carries a polyhistidine tag at the C-terminus.  
The protein has a calculated MW of 44.5 kDa. The protein migrates as 45-50 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method / rFC method.

Purity

>95% as determined by SDS-PAGE.  
>95% as determined by SEC-MALS.

Formulation

Supplied as 0.2 µm filtered solution in 12.5 mM MES, 75 mM NaCl, pH6.5 with glycerol as protectant.  
Contact us for customized product form or formulation.

Shipping

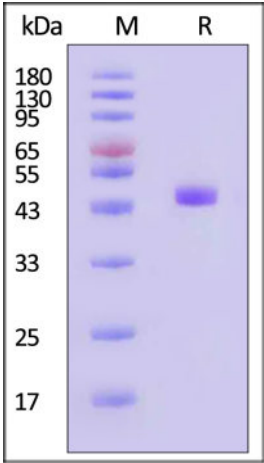
*This product is supplied and shipped with dry ice, please inquire the shipping cost.*

Storage

*Please avoid repeated freeze-thaw cycles.*  
This product is stable after storage at:

- The product MUST be stored at -70°C or lower upon receipt;
- -70°C for 3 months under sterile conditions.

SDS-PAGE

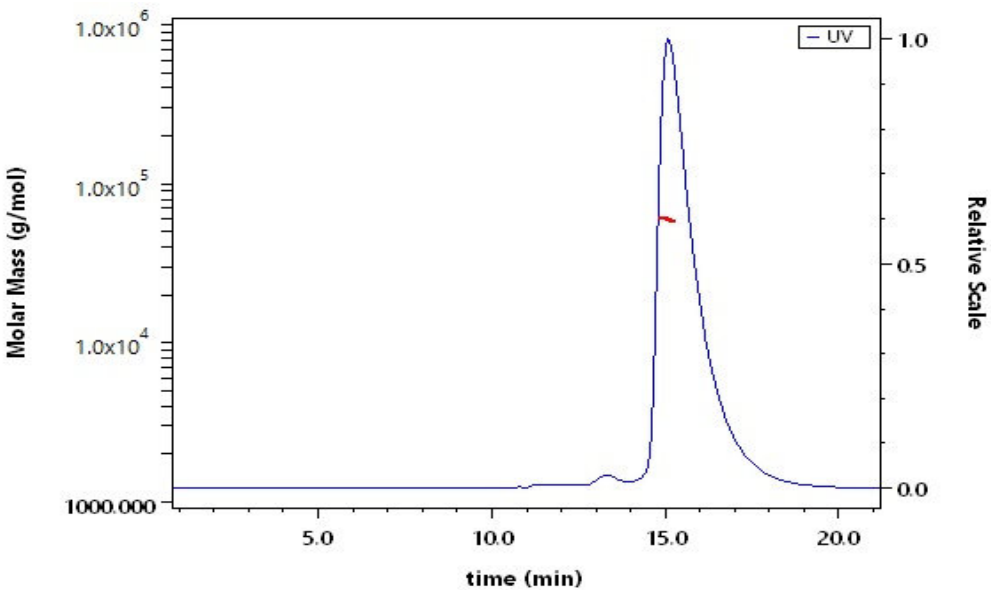


Human Cathepsin D Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

Bioactivity

Measured by its ability to cleave the fluorogenic peptide substrate, Mca-PLGL-Dpa-AR-NH2 . The specific activity is >350 pmol/min/µg (QC tested).

SEC-MALS



The purity of Human Cathepsin D Protein, His Tag (Cat. No. CAD-H52H3) is more than 95% and the molecular weight of this protein is around 45-65 kDa verified by SEC-MALS.  
[Report](#)





Background

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 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]

