

Human CellExp Cathepsin D, human recombinant protein
CTSD, Cathepsin D, CPSD, CLN10
Catalog # PBV11031r**Specification**

Human CellExp Cathepsin D, human recombinant protein - Product infoPrimary Accession
Calculated MW[P07339](#)

This protein is fused with polyhistidine tag at the C-terminus, has a calculated MW of 43.6 kDa. The predicted N-terminus is Ser 19. DTT-reduced Protein migrates as 45-55 kDa due to glycosylation. KDa

Human CellExp Cathepsin D, human recombinant protein - Additional InfoGene ID
Gene Symbol
Other Names
CTSD, Cathepsin D, CPSD, CLN10**1509**
CTSDGene Source
Source
Assay&Purity
Assay2&Purity2
Recombinant
Results**Human**
HEK293 cells
SDS-PAGE; ≥95%
N/A;
Yes
Measured by its ability to cleave the fluorogenic peptide substrate, Mca-PLGL-Dpa-AR-NH2. The specific activity is >450 pmol/min/ µg.**Target/Specificity**
Cathepsin D**Application Notes**

Centrifuge the vial prior to opening. Reconstitute in sterile PBS, pH 7.4 to a concentration of 50 µg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 month. For extended storage, it is recommended to store at -20°C.

Format
Lyophilized**Storage**
-20°C; Lyophilized from 0.22 µm filtered solution in 50 mM MES, pH 6.5 with 100 mM NaCl. Generally 5-8% Mannitol or trehalose is added as a protectant before lyophilization.**Human CellExp Cathepsin D, human recombinant protein - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Human CellExp Cathepsin D, human recombinant protein - Images

Human CellExp Cathepsin D, human recombinant protein - Background

Cathepsin D is also known as CTSD, CPSD, which belongs to the peptidase A1 family. Cathepsin D can be cleaved into the following 2 chains: cathepsin D light chain and cathepsin D heavy chain, which is expressed in the aorta extracellular space (at protein level). The catalytic activity of Cathepsin D is specificity similar to, but narrower than, that of pepsin A. Cathepsin D does not cleave the 4-Gln-|-His-5 bond in B chain of insulin. Cathepsin D involved in the pathogenesis of several diseases such as breast cancer and possibly Alzheimer disease.

Human CellExp Cathepsin D, human recombinant protein - References

Faust P.L.,et al.Proc. Natl. Acad. Sci. U.S.A. 82:4910-4914(1985).
Westley B.R.,et al.Nucleic Acids Res. 15:3773-3786(1987).
Redecker B.,et al.DNA Cell Biol. 10:423-431(1991).
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