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

## Specification

### Human CellExp Cathepsin D, human recombinant protein - Product info

| | |
|---|---|
| Primary Accession | P07339 |
| Calculated MW | **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 Info

| | |
|---|---|
| Gene ID | **1509** |
| Gene Symbol | **CTSD** |

**Other Names**
CTSD, Cathepsin D, CPSD, CLN10

| | |
|---|---|
| Gene Source | **Human** |
| Source | **HEK293 cells** |
| Assay&Purity | **SDS-PAGE; ≥95%** |
| Assay2&Purity2 | **N/A;** |
| Recombinant | **Yes** |
| Results | **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 Cytomety
- 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**

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