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**Active Cathepsin D, Human Recombinant**  
Procathepsin D, CTSD  
Catalog # PBV11473r**Specification**

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**Active Cathepsin D, Human Recombinant - Product info**Primary Accession [P07339](#)  
Calculated MW **45.1 kDa KDa****Active Cathepsin D, Human Recombinant - Additional Info**Gene ID **1509**  
**Other Names**  
Procathepsin D, CTSD  
  
Gene Source **Human**  
Source **E. coli**  
Assay&Purity **SDS-PAGE; ≥80%**  
Assay2&Purity2 **N/A; ≥80%**  
Recombinant **Yes**  
**Target/Specificity**  
Cathepsin D**Application Notes**

Reconstitute to 1 mg/ml in water

**Format**

Freeze-Dried

**Storage**

-20°C; Freeze-dried from proprietary buffer

**Active Cathepsin D, Human Recombinant - Background**

Cathepsin D is a lysosomal aspartyl protease composed of a protein dimer of disulfide-linked heavy and light chains, both produced from a single protein precursor. It is an estrogen-regulated protein associated with tissue breakdown. Levels of cathepsin D have been positively correlated with recurring breast cancers of both node negative and node positive types. Additionally cathepsin D has been associated with amyloid formation in Alzheimer's plaques. Cathepsin D is produced initially as a pre-pro-enzyme which gets transported to lysosomes via endosomes in most cell types. In endosomes, it gets proteolyzed by unidentified proteases by removal of the pro-peptide to generate active single-chain Cathepsin D; while in lysosomes, further processing by cysteine cathepsins B and L generates mature, active double-chain Cathepsin D. BioVision's Active Human Cathepsin D is a proteolytically active, non-glycosylated enzyme expressed, purified and activated by proprietary methods.

**Active Cathepsin D, Human Recombinant - 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](#)