

**CTSD(heavy chain) Blocking Peptide (Center)**  
**Synthetic peptide**  
**Catalog # BP20803c****Specification**

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**CTSD(heavy chain) Blocking Peptide (Center) - Product Information**

Primary Accession [P07339](#)  
Other Accession [P18242](#), [P80209](#)

**CTSD(heavy chain) Blocking Peptide (Center) - Additional Information**

**Gene ID** 1509

**Other Names**

Cathepsin D, Cathepsin D light chain, Cathepsin D heavy chain, CTSD, CPSD

**Target/Specificity**

The synthetic peptide sequence is selected from aa 241-253 of HUMAN CTSD

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**CTSD(heavy chain) Blocking Peptide (Center) - Protein Information**

**Name** CTSD

**Synonyms** CPSD

**Function**

Acid protease active in intracellular protein breakdown. Plays a role in APP processing following cleavage and activation by ADAM30 which leads to APP degradation (PubMed:<a href="http://www.uniprot.org/citations/27333034" target="\_blank">27333034</a>). Involved in the pathogenesis of several diseases such as breast cancer and possibly Alzheimer disease.

**Cellular Location**

Lysosome. Melanosome. Secreted, extracellular space. Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV. In aortic samples, detected as an extracellular protein loosely bound to the matrix (PubMed:20551380)

**Tissue Location**

Expressed in the aorta extracellular space (at protein level) (PubMed:20551380). Expressed in

liver (at protein level) (PubMed:1426530).

### **CTSD(heavy chain) Blocking Peptide (Center) - Protocols**

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

- [Blocking Peptides](#)

### **CTSD(heavy chain) Blocking Peptide (Center) - Images**

### **CTSD(heavy chain) Blocking Peptide (Center) - Background**

Acid protease active in intracellular protein breakdown. Involved in the pathogenesis of several diseases such as breast cancer and possibly Alzheimer disease.

### **CTSD(heavy chain) Blocking Peptide (Center) - 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).  
Ebert L.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.  
Kalnine N.,et al.Submitted (OCT-2004) to the EMBL/GenBank/DDBJ databases.