

## Recombinant Human CTSD

**Cat. No.** CTSD-26213TH    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full length human cathepsin D protein expressed in E. coli
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	<p>This gene encodes a lysosomal aspartyl protease composed of a dimer of disulfide-linked heavy and light chains, both produced from a single protein precursor. This proteinase, which is a member of the peptidase C1 family, has a specificity similar to but narrower than that of pepsin A. Transcription of this gene is initiated from several sites, including one which is a start site for an estrogen-regulated transcript. Mutations in this gene are involved in the pathogenesis of several diseases, including breast cancer and possibly Alzheimer disease.</p>
<b>Form</b>	Liquid
<b>Purity</b>	>95% by SDS-PAGE
<b>Storage buffer</b>	Preservative: None Constituents: 20% Glycerol, 50mM Tris acetate, 1mM EDTA, pH 7.5
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Sequence Similarities</b>	Belongs to the peptidase A1 family.

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**Full Length** Full L.

## GENE INFORMATION

**Gene Name** CTSD cathepsin D [ Homo sapiens ]

**Official Symbol** CTSD

**Synonyms** CTSD; cathepsin D; cathepsin D (lysosomal aspartyl protease) , CPSD; ceroid lipofuscinosis; neuronal 10; CLN10;

**Gene ID** 1509

**mRNA Refseq** NM\_001909

**Protein Refseq** NP\_001900

**MIM** 116840

**Uniprot ID** P07339

**Chromosome Location** 11p15.5

**Pathway** Ceramide signaling pathway, organism-specific biosystem; Direct p53 effectors, organism-specific biosystem; LKB1 signaling events, organism-specific biosystem; Lysosome, organism-specific biosystem; Lysosome, conserved biosystem;

**Function** aspartic-type endopeptidase activity; peptidase activity;

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