

Recombinant Human CTSD

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

SPECIFICATION

Product Overview	Recombinant full length human cathepsin D protein expressed in E. coli
Species	Human
Source	E.coli
Description	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.
Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 20% Glycerol, 50mM Tris acetate, 1mM EDTA, pH 7.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Sequence Similarities	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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