# Recombinant Human CTSD, GST-tagged

**Cat. No.** CTSD-11684H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Human CTSD protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose. |
| **Species** | Human |
| **Source** | E.coli |
| **ProteinLength** | C-term-354a.a. |
| **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. |
| **Storage** | The protein is stored in PBS buffer at -20℃. Avoid repeated freezing and thawing cycles. |
| **Storage Buffer** | 1M PBS (58mM Na2HPO4,17mM NaH2PO4, 68mM NaCl, pH8. ) added with 100mM GSH and 1% Triton X-100,15%glycerol. |

## GENE INFORMATION

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| **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; lysosomal aspartyl protease; lysosomal aspartyl peptidase; ceroid-lipofuscinosis, neuronal 10; CPSD; MGC2311; |
| **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; Tuberculosis, organism-specific biosystem; Tuberculosis, conserved biosystem; |
| **Function** | aspartic-type endopeptidase activity; peptidase activity; |

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