

Active Recombinant Human CTSD protein, His-tagged

Cat. No. CTSD-04H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human CTSD protein, fused to His-tag, was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	21-412aa
Description	<p>This gene encodes a member of the A1 family of peptidases. The encoded preproprotein is proteolytically processed to generate multiple protein products. These products include the cathepsin D light and heavy chains, which heterodimerize to form the mature enzyme. This enzyme exhibits pepsin-like activity and plays a role in protein turnover and in the proteolytic activation of hormones and growth factors. Mutations in this gene play a causal role in neuronal ceroid lipofuscinosis-10 and may be involved in the pathogenesis of several other diseases, including breast cancer and possibly Alzheimer's disease.</p>
Form	Liquid in. 50mM MES buffer (pH 5.5) containing 100mM NaCl, 20% glycerol.
Bio-activity	Specific activity is > 20 pmol/min/ug, and is defined as the amount of enzyme that cleaves 1pmol of Mca-PLGL-Dpa-AR-NH2 per minute at pH 3.5 at 25 centigrade.
Molecular Mass	43.4 kDa
AA Sequence	LVRIPLHKFT SIRRTMSEVG GSVEDLIAKG PVSQYSQAVP AVTEGPIPEV

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LKNYMDAQYY GEIGIGTPPQ CFTVVFDTGS SNLWVPSIHC KLLDIACWIH
 HKYNSDKSST YVKNGTSTFDI HYGSGSLSGY LSQDTVSVPC QSASSASALG
 GVKVERQVFG EATKQPGITF IAAKFDGILG MAYPRISVNN VLPVFDNLMQ
 QKLVDQNIFS FYLSRDPDAQ PGGELMLGGT DSKYYKGSLS YLNVTRKAYW
 QVHLDQVEVA SGLTLCKEGC EAIVDTGTSL MVGPVDEVRE LQKAIGAVPL
 IQGEYMIPCE KVSTLPAILL KLGKGYKLS PEDYTLKVSQ AGKTLCLSGF
 MGMDIPPPSG PLWILGDVFI GRYYTVFDRD NNRVGFAEAA RL

Endotoxin	< 1 EU per 1ug of protein (determined by LAL method).
Purity	> 95%
Applications	SDS-PAGE, Enzyme Activity
Storage	Can be stored at 2 centigrade to 8 centigrade for 1 week. For long term storage, aliquot and store at -20 centigrade to -80 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml

GENE INFORMATION

Gene Name	CTSD cathepsin D [Homo sapiens (human)]
Official Symbol	CTSD
Synonyms	CPSD; CTSD; Cathepsin D; CLN10; HEL-S-130P; lysosomal aspartyl protease; lysosomal aspartyl peptidase; lysosomal aspartyl protease
Gene ID	1509



mRNA Refseq	NM_001909
Protein Refseq	NP_001900
MIM	116840
UniProt ID	P07339

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