

Recombinant Full Length Human CTSF Protein, GST-tagged

Cat. No. CTSF-2347HF Lot. No. (See product label)

SPECIFICATION

Product Overview	Human CTSF full-length ORF (NP_003784.2, 1 a.a. - 484 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	484 amino acids

Description

Cathepsins are papain family cysteine proteinases that represent a major component of the lysosomal proteolytic system. Cathepsins generally contain a signal sequence, followed by a propeptide and then a catalytically active mature region. The very long (251 amino acid residues) proregion of the cathepsin F precursor contains a C-terminal domain similar to the pro-segment of cathepsin L-like enzymes, a 50-residue flexible linker peptide, and an N-terminal domain predicted to adopt a cystatin-like fold. The cathepsin F proregion is unique within the papain family cysteine proteases in that it contains this additional N-terminal segment predicted to share structural similarities with cysteine protease inhibitors of the cystatin superfamily. This cystatin-like domain contains some of the elements known to be important for inhibitory activity. CTSF encodes a predicted protein of 484 amino acids which contains a 19 residue signal peptide. Cathepsin F contains five potential N-glycosylation sites, and it may be targeted to the endosomal/lysosomal compartment via the mannose 6-phosphate receptor pathway. The cathepsin F gene is ubiquitously expressed, and it maps to chromosome 11q13, close to the gene encoding cathepsin W. [provided by

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	RefSeq, Jul 2008]
Molecular Mass	79.8 kDa
AA Sequence	<p>MAPWLQLLSLLGLLPGAVAAPAQPRAASFQAWGPPSPELLAPTRFALEMFNRRGAA GTRAVLGLVRGRVRRAGQGSLYSLEATLEPPCNDPMVCRLPVSKKTLCSFQVLD ELGRHVLLRKDCGPVDTKVPGAGEPKSAFTQGSAMISLSQNHDPNRNETFSSVISL LNEDPLSQDLPVKMASIFKNFVITYNRTYESKEEARWRLSVFVNNMVRAQKIQALDR GTAQYGVTKFSDLTEEEFRTIYLNLLRKEPGNKMKAQKSVGDLAPPEWDWRKGA VTKVKDQGMCGSCWAFSVTGNVEGQWFLNQGTLTLLSLSEQELLDCDKMDKACMGG LPSNAYSAINLGGLETTEDDYSYQGHMQSCNFSAEKAKVYINDSVLSQNEQKLAA WLAKRGPISVAINAFGMQFYRHGISRPLRPLCSPWLIDHAVLLVGYGNRSDVPPFWAI KNSWGTDWGEKGYYYLHRGSGACGVNTMASSAVVD</p>
Applications	<p>Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array</p>
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
GENE INFORMATION	
Gene Name	CTSF cathepsin F [Homo sapiens]
Official Symbol	CTSF

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Synonyms	CTSF; cathepsin F; CATSF; CLN13;
Gene ID	8722
mRNA Refseq	NM_003793
Protein Refseq	NP_003784
MIM	603539
UniProt ID	Q9UBX1

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