

Recombinant Human CTSF cell lysate

Cat. No. CTSF-420HCL Lot. No. (See product label)

SPECIFICATION

Product Overview

Species Human

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.

Size 100 ul

Storage Buffer

1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)

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Applications Western Blot;

GENE INFORMATION

Gene Name CTSF cathepsin F [Homo sapiens]

Official Symbol CTSF

Synonyms CTSF; cathepsin F; CATSF; CLN13;

Gene ID 8722

mRNA Refseq NM_003793

Protein Refseq NP_003784

MIM 603539

UniProt ID Q9UBX1

Chromosome Location 11q13.2

Pathway Lysosome, organism-specific biosystem; Lysosome, conserved biosystem;

Function cysteine-type endopeptidase activity; peptidase activity;

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