

## Recombinant Human CTSF cell lysate

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

### SPECIFICATION

**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)

**Applications**

Western Blot;

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**GENE INFORMATION**

|                            |   |
|----------------------------|---|
| <b>Gene Name</b>           | CTSF cathepsin F [ Homo sapiens ]                                     |
| <b>Official Symbol</b>     | CTSF  |
| <b>Synonyms</b>            | CTSF; cathepsin F; CATSF; CLN13;                                      |
| <b>Gene ID</b>             | <a href="#">8722</a>  |
| <b>mRNA Refseq</b>         | <a href="#">NM_003793</a>   |
| <b>Protein Refseq</b>      | <a href="#">NP_003784</a>   |
| <b>MIM</b>                 | <a href="#">603539</a>  |
| <b>UniProt ID</b>          | <a href="#">Q9UBX1</a>  |
| <b>Chromosome Location</b> | 11q13.2   |
| <b>Pathway</b>             | Lysosome, organism-specific biosystem; Lysosome, conserved biosystem; |
| <b>Function</b>            | cysteine-type endopeptidase activity; peptidase activity;             |

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