

## Recombinant Human Cathepsin F, His-tagged

Cat. No. CTSF-506H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human cathepsin F, CD33 signal peptide(1-16aa) + cathepsin S (a-a 20-end), with C-terminal His tag expressed in <i>FreeStyle 293-F cells</i> . MW= 53 kDa.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	1-16;20-end a.a.
<b>Description</b>	<p>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.</p>
<b>Purity</b>	>90%.
<b>Application</b>	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

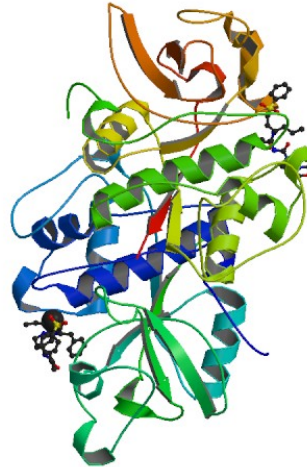
<b>Formulated In</b>	25 mM Tris-HCl, pH 8.0, 100 mM NaCl, 0.05% Tween-20 and 10% glycerol.
<b>Stability</b>	>6 months at -80°C.
<b>nullValue_other</b>	Lysosome
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	CTSF cathepsin F [ Homo sapiens ]
<b>Synonyms</b>	CTSF; cathepsin F; CATSF;Cathepsin F;EC3.4.22.41
<b>Gene ID</b>	8722
<b>mRNA Refseq</b>	NM_003793
<b>Protein Refseq</b>	NP_003784
<b>MIM</b>	603539
<b>UniProt ID</b>	Q9UBX1
<b>Chromosome Location</b>	11q13
<b>Function</b>	cysteine-type endopeptidase activity; peptidase activity

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

PDB rendering based  
on 1m6d.



 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA