

Recombinant Human Cathepsin F, His-tagged

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	HEK293
ProteinLength	1-16;20-end a.a.
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.
Purity	>90%.
Application	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  Fax: 1-631-938-8127

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

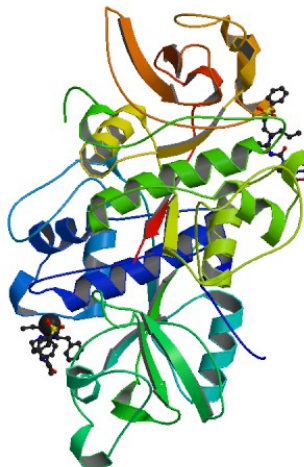
Formulated In	25 mM Tris-HCl, pH 8.0, 100 mM NaCl, 0.05% Tween-20 and 10% glycerol.
Stability	>6 months at –80°C.
nullValue_other	Lysosome
GENE INFORMATION	
Gene Name	CTSF cathepsin F [Homo sapiens]
Synonyms	CTSF; cathepsin F; CATSF;Cathepsin F;EC3.4.22.41
Gene ID	8722
mRNA Refseq	NM_003793
Protein Refseq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

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

 Email: 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 Fax: 1-631-938-8127

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