

Product datasheet for **AR51083PU-S**

Cathepsin F (271-484, His-tag) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Cathepsin F (271-484, His-tag) human protein, 0.1 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MGSSHHHHHH SSGLVPRGSH MGSAPPEWDW RSKGAVTKVK DQGMCGSCWA FSVTGNVEGQ WFLNQGTLLS LSEQELLD CD KMDKACMGGL PSNAYS AIKN LGGLETEDDY SYQGHMQSCN FSAEKAKVYI NDSVELSQNE QKLAAWLAKR GPISVAINAF GMQFYRHGIS RPLRPLCSPW LIDHAVLLVG YGNRSDVPFW AIKNSWGTDW GEKGYYYLHR GSGACGVNTM AS
Tag:	His-tag
Predicted MW:	26 kDa
Concentration:	lot specific
Purity:	>90% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol
Preparation:	Liquid purified protein
Storage:	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_003784
Locus ID:	8722
UniProt ID:	Q9UBX1
Cytogenetics:	11q13.2
Synonyms:	CATSF; CLN13



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Summary:

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 RefSeq, Jul 2008]

Protein Families:

Druggable Genome, Protease

Protein Pathways:

Lysosome

Product images: