

## Recombinant Human CTSF, His-tagged

**Cat. No.** CTSF-15903H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant human CTSF protein, fused to His tag at N-terminus, was expressed in E.coli.                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>ProteinLength</b>    | 271-484aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>      | Cathepsin F, also known as CTSF, belongs to the cathepsin family. Cathepsins are papain family cysteine proteinases that represent a major component of the lysosomal proteolytic system. The CTSF gene is ubiquitously expressed, and it maps to chromosome 11q13, close to the gene encoding cathepsin W. CTSF is thought to play a role in normal protein catabolism, and because it is highly expressed in some cancer cell lines, it may be involved in degradative processes occurring during tumor progression. |
| <b>Form</b>             | Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Molecular Mass</b>   | 26 kDa (237aa)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>AA Sequence</b>      | MGSSHHHHHH SSGLVPRGSH MGSAPPEWDW RSKGAVTKVK DQGMCGSCWA<br>FSVTGNVEGQ WFLNQGTLLS LSEQELLD CD KMDKACMGGL PSNAYSAIKN<br>LGGLETEDDY SYQGHMQSCN FSAEKAKVYI NDSVELSQNE QKLAAWLAKR<br>GPISVAINAF GMQFYRHGIS RPLRPLCSPW LIDHAVLLVG YGNRSDVPFW                                                                                                                                                                                                                                                                                  |

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AIKNSWGTDW GEKGYYYLHR GSGACGVNTM ASSAVVD

**Purity** >90% by SDS - PAGE

**Applications** SDS-PAGE

**Storage** Can be stored at 4°C short term. For long term storage, aliquot and store at at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

**Concentration** 1 mg/ml (determined by Bradford assay)

## 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

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|                |                                                                       |
|----------------|-----------------------------------------------------------------------|
| <b>Pathway</b> | Lysosome, organism-specific biosystem; Lysosome, conserved biosystem; |
|----------------|-----------------------------------------------------------------------|

|                 |                                                           |
|-----------------|-----------------------------------------------------------|
| <b>Function</b> | cysteine-type endopeptidase activity; peptidase activity; |
|-----------------|-----------------------------------------------------------|

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