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**Product Data Sheet**


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Product Name: CTSF Human, Sf9

Cat. No.: GP26142

Batch No.: 1

**Product Data**

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	withIcePacks
Synonyms	CTSF, CATSF, CLN13.		
Amino Acid Sequence	ADLAPAQPRA ASFQAWGPPS PELLAPTRFA LEMFNRGRAA GTRAVLGLVR GRVRRAGQGS LYSLEATLEE PPCNDPMVCR LPVSKKTLIC SFQVLDELGR HVLLRKDCGP VDTKVPGAGE PKSAFTQGS MISSLSQNHP DNRNETFSSV ISLLNEDPLS QDLPVKMASI FKNFVITYNR TYESKEEARW RLSVFNMMV RAQKIQUALDR GTAQYGVTKF SDLTEEFRT IYLNLLRKE PGNKMKQAKS VGD LAPPEWD WRSKGAVTKV KDQGMCGSCW AFSVTGNVEG WFLNQGTLL SLSEQELLDC DKMDKACMGG LPSNAYSIAK NLGGLETEDD YSYQGHMQSC NFSAEKAKVY INDSVELSQN EQKLAAWLAK RGPISVAINA FGMQFYRHGI SRPLRPLCSP WLIDHAVLLV GYGNRSDVPF WAIKNSWGTD WGEKGYYYLH RGSGACGVNT MASSAVVDHH HHHH		
Formulation	CTSF protein solution (0.25mg/ml) contains Phosphate buffered saline (pH7.4) and 40% glycerol.		

**Introduction**

Cathepsin F (CTSF) is a member of the peptidase C1 family. Cathepsins are papain family cysteine proteinases which are a main 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 plays a role in normal protein catabolism. CTSF is involved in some degradative processes occurring in tumor progression since it is highly expressed in some cancer cell lines.

**Biological Activity**

Specific activity is > 5 pmol/min/ug, and is defined as the amount of enzyme that hydrolyze 1pmole of Z-Phe-ArgAMC to Z-Phe-Arg and AMC per minute at pH 5.0 at 37°C.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

CTSF produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 474 amino acids (20-484.a.a) and having a molecular mass of 52.5kDa. CTSF is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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