

# Recombinant Full Length Human CTSG Protein, GST-tagged

**Cat. No.** CTSG-2349HF    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human CTSG full-length ORF ( AAH14460.1, 1 a.a. - 255 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	255 amino acids
<b>Description</b>	The protein encoded by this gene, a member of the peptidase S1 protein family, is found in azurophil granules of neutrophilic polymorphonuclear leukocytes. The encoded protease has a specificity similar to that of chymotrypsin C, and may participate in the killing and digestion of engulfed pathogens, and in connective tissue remodeling at sites of inflammation. In addition, the encoded protein is antimicrobial, with bacteriocidal activity against <i>S. aureus</i> and <i>N. gonorrhoeae</i> . Transcript variants utilizing alternative polyadenylation signals exist for this gene. [provided by RefSeq, Sep 2014]
<b>Molecular Mass</b>	53.79 kDa
<b>AA Sequence</b>	MQPLLLLLAFLLPTGAEAGEIIGGRESRPHSRPYMAYLQIQSPAGQSRCGGFLVRED FVLTAAHCWGSNINVTLGAHNIQRRENTQQHITARRAIRHPQYNQRTIQNDIMLLQLS RRVRRNRNVNPVALPRAQEGLRPGTLCTVAGWGRVSMRRGTDTLREVQLRVQRD RQCLRIFGSYDPRRQICVGDRRERKAAFKGDSGGPLLCCNNVAHGIVSYGKSSGVPP EVFTRVSSFLPWIRTTMRSFKLLDQMETPL

 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>Applications</b>	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
<b>Notes</b>	Best use within three months from the date of receipt of this protein.
<b>Storage</b>	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

<b>Gene Name</b>	CTSG cathepsin G [ Homo sapiens ]
<b>Official Symbol</b>	CTSG
<b>Synonyms</b>	CTSG; cathepsin G; CG; CATG; MGC23078;
<b>Gene ID</b>	1511
<b>mRNA Refseq</b>	NM_001911
<b>Protein Refseq</b>	NP_001902
<b>MIM</b>	116830
<b>UniProt ID</b>	P08311

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