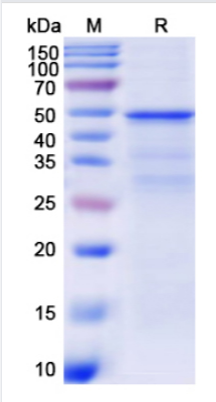
CTSG Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	CTSG, Recombinant Protein
Full Product Name	Recombinant Human CTSG protein
Product Gene Name	CTSG recombinant protein
Product Synonym Names	Cathepsin G; CG
Host	E Coli
Form/Format	Lyophilized from PBS pH 7.4, 0.02% NLS, 1mM EDTA, 4% Trehalose, 1% Mannitol
Purity/Purification	>90% as determined by SDS-PAGE
Preparation and Storage	Store at 2 to 8°C for one week. Store at -20 to -80°C for twelve months from the date of receipt. Use a manual defrost freezer and avoid repeated freeze thaw cycles.
Molecular Weight	Predicted MW: 51.06 kDa
Chromosome Location	Chromosome: 14; NC_000014.8 (25042724..25045466, complement). Location: 14q11.2
OMIM	116830
3D Structure	ModBase 3D Structure for P08311
Species	Homo sapiens (Human)
Protein Construction	A DNA sequence encoding the human CTSG (Ile21-Leu255) was fused with GST tag
Reconstitution	Reconstitute in sterile water for a stock solution.
Product Categories/Family for CTSG recombinant protein	Protein
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for CTSG recombinant protein	Serine protease with trypsin- and chymotrypsin-like specificity. Cleaves complement C3. Has antibacterial activity against the Gram-negative bacterium P. Aeruginosa, antibacterial activity is inhibited by LPS from P. Aeruginosa, Z-Gly-Leu-Phe-CH2Cl and phenylmethylsulfonyl fluoride.
Other Notes	Small volumes of CTSG recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CTSG purchase	MBS1562794 is a recombinant protein targeting CTSG. Also known as Recombinant Human CTSG protein. Host: E Coli.



SDS-PAGE (SDS) of CTSG recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CTSG. It may not necessarily be applicable to this product.

NCBI GI #	4503149
NCBI GeneID	1511
NCBI Accession #	NP_001902.1
UniProt Primary Accession #	P08311
UniProt Secondary Accession #	Q6IBJ6; Q9UCA5; Q9UCU6
UniProt Related Accession #	P08311
GenBank Nucleotide #	NM_001911.2
NCBI Official Full Name	cathepsin G preproprotein
NCBI Official Synonym Full Names	cathepsin G
NCBI Official Symbol	CTSG
NCBI Official Synonym Symbols	CG; CATG
UniProt Protein Name	Cathepsin G
Protein Family	Cathepsin
UniProt Gene Name	CTSG
UniProt Synonym Gene Names	CG
UniProt Entry Name	CATG_HUMAN
NCBI Protein Information	cathepsin G
NCBI Summary for CTSG	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. Transcript variants utilizing alternative polyadenylation signals exist for this gene. [provided by RefSeq, Jul 2008]

UniProt Comments for CTSG	CTSG: Serine protease with trypsin- and chymotrypsin-like specificity. Cleaves complement C3. Has antibacterial activity against the Gram-negative bacterium P.aeruginosa, antibacterial activity is inhibited by LPS from P.aeruginosa, Z-Gly-Leu-Phe- CH2Cl and phenylmethylsulfonyl fluoride. Belongs to the peptidase S1 family. Protein type: Motility/polarity/chemotaxis; EC 3.4.21.20; Protease Chromosomal Location of Human Ortholog: 14q11.2 Cellular Component: extracellular matrix; extracellular space; cell surface; plasma membrane; extracellular region; nucleus; secretory granule Molecular Function: heparin binding; peptidase activity; serine-type endopeptidase activity Biological Process: extracellular matrix disassembly; positive regulation of immune response; extracellular matrix organization and biogenesis; cellular protein metabolic process; immune response; response to lipopolysaccharide; protein processing; proteolysis; angiotensin maturation; defense response to fungus
Research Articles on CTSG	**1.** NE and CG bind to the surface of cancer cells, presumably to a cell surface receptor, and subsequently undergo clathrin pit-mediated endocytosis.
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