

Native Human Cathepsin G

Cat. No. CTSG-5327H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Human CTSG was expressed in Human Neutrophil.
Species	Human
Source	Human Neutrophil
Description	CTSG, is a serine protease, and a member of the peptidase S1 protein family, located in the azurophil granules of neutrophils. Studies have shown that CTSG when released from granulocytes binds to NK cells and augments NK cytotoxicity through its protease activity. CTSG 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.
Form	Liquid in 50 mM Sodium Acetate pH 5.5 + 0.8 M NaCl.
Biological Activity	One unit will hydrolyze one micromole of Succinyl-alanine-alanine-proline-phenylalanine-p-nitroanilide per minute at 37°C and pH 7.5.
Concentration	Typically > 0.1 mg/ml
Storage	Product is stable at -80°C for 3 years.
Official Symbol	CTSG

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Pathways ACE Inhibitor Pathway; Lysosome; Amoebiasis; Diabetes; Neuroactive ligand-receptor interaction; Renin-angiotensin system; Systemic lupus erythematosus

GENE INFORMATION

Gene Name CTSGcathepsin G [Homo sapiens]

Synonyms CTSG; cathepsinG; CG; CATG; MGC23078; OTTHUMP00000178752; EC 3.4.21.20; Cathepsin G

Gene ID 1511

mRNA Refseq NM_001911

Protein Refseq NP_001902

MIM 116830

UniProt ID P08311

Chromosome Location 14q11.2

Function serine-type endopeptidase activity; heparin binding; peptidase activity

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