

Native Human CTSG

Cat. No. CTSG-26490TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Full length native Human Cathepsin G purified from Human neutrophils; MWt 23.5kDa.
Species	Human
Description	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.
Biological activity	Activity:2-4 units per mg protein. One unit is defined as the amount of enzyme that hydrolyzes one mole of Suc-Ala-Ala Pro-Phe-pNA (1 mM) per minute at 25°C in 160 mM Tris-HCl, pH 7.4, with 1.6 M NaCl.
Form	Lyophilised
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: dH2O (Salt-free)
Storage	Shipped at 4°C. Store at -20oC.
Sequence	Belongs to the peptidase S1 family.Contains 1 peptidase S1 domain.

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Similarities

Full Length Full L.

GENE INFORMATION

Gene Name CTSG cathepsin G [Homo sapiens]

Official Symbol CTSG

Synonyms CTSG; cathepsin G; CG;

Gene ID 1511

mRNA Refseq NM_001911

Protein Refseq NP_001902

MIM 116830

Uniprot ID P08311

Chromosome Location 14q12

Pathway ACE Inhibitor Pathway, organism-specific biosystem; Amoebiasis, organism-specific biosystem; Amoebiasis, conserved biosystem; Diabetes pathways, organism-specific biosystem; Lysosome, organism-specific biosystem;

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

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