# Native Human CTSG

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

## SPECIFICATION

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|---|---|
| **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 μmole 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

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|---|---|
| **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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