

## Active Native Human CTSG protein

Cat. No. CTSG-1649H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Native Human CTSG was purified from Human Neutrophil.
<b>Species</b>	Human
<b>Source</b>	Human Neutrophil
<b>Description</b>	This enzyme degrades collagen and proteoglycan and can also cause the release of angiotensin II from angiotensin I or angiotensinogen. It has been implicated in connective tissue diseases such as emphysema and rheumatoid arthritis.
<b>Form</b>	Salt-free lyophilized solid.
<b>Bio-activity</b>	2-4 units per mg protein
<b>Molecular Mass</b>	23500
<b>Purity</b>	>=95% by SDS-PAGE
<b>Unit Definition</b>	One unit is defined as the amount of enzyme that hydrolyzes one umole of Suc-Ala-Ala Pro-Phe-pNA (1 mM) per minute at 25 centigrade in 160 mM Tris-HCl, pH 7.4, with 1.6 M NaCl.
<b>Storage</b>	Stored at -20 centigrade

### GENE INFORMATION

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<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
<b>Chromosome Location</b>	14q12
<b>Pathway</b>	ACE Inhibitor Pathway, organism-specific biosystem; Activation of Matrix Metalloproteinases, organism-specific biosystem; Amoebiasis, organism-specific biosystem; Amoebiasis, conserved biosystem; Degradation of the extracellular matrix, organism-specific biosystem; Diabetes pathways, organism-specific biosystem; Disease, organism-specific biosystem;
<b>Function</b>	heparin binding; peptidase activity; serine-type endopeptidase activity;

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