

Active Native Human CTSG protein

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

SPECIFICATION

Product Overview	Native Human CTSG was purified from Human Neutrophil.
Species	Human
Source	Human Neutrophil
Description	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.
Form	Salt-free lyophilized solid.
Bio-activity	2-4 units per mg protein
Molecular Mass	23500
Purity	>=95% by SDS-PAGE
Unit Definition	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.
Storage	Stored at -20 centigrade

GENE INFORMATION

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Gene Name	CTSG cathepsin G [Homo sapiens]
Official Symbol	CTSG
Synonyms	CTSG; cathepsin G; CG; CATG; MGC23078;
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; 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;
Function	heparin binding; peptidase activity; serine-type endopeptidase activity;

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