

Human Elastase

Cat. No. ELANE-1653H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ELANE having a molecular mass of 29.5kDa was purified from Human Neutrophil.
Species	Human
Description	ELANE, like trypsin and chymotrypsin, is a serine protease that also hydrolyses amides and esters. It is produced in the pancreas as an inactive zymogen, proelastase, and activated in the duodenum by trypsin. ELANE is distinctive in that it acts upon elastin. This enzyme degrades elastin, collagen, and proteoglycan and has been implicated in the development of pulmonary emphysema and rheumatoid arthritis.
Biological Activity	20-22 units per mg protein. One unit is defined as the amount of enzyme that hydrolyzes one micromole of Meo-Suc-Ala-Pro-Val-pNA per minute at 25°C in 100 mM Tris-HCl, pH 7.5, with 500 mM NaCl.
Molecular Weight	29.5 kDa
Form	Salt-free lyophilized solid
Appearance	Lyophilized protein
Reconstitution	Deionized water
Purity	≥95% by SDS-PAGE

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Storage	-20°C
Pathways	C-MYB transcription factor network; Systemic lupus erythematosus; amb2 Integrin signaling
GENE INFORMATION	
Gene Name	ELANE elastase, neutrophil expressed [Homo sapiens]
Official Symbol	ELANE
Synonyms	ELANE; elastase, neutrophil expressed; GE; NE; HLE; HNE; ELA2; SCN1; PMN-E ; neutrophil elastase ; elastase-2; medullasin; PMN elastase; leukocyte elastase; elastase 2, neutrophil; human leukocyte elastase; polymorphonuclearelastase; bone marrow serine protease; granulocyte-derived elastase; elastase, neutrophil expressed; Bone marrow serine protease; Human leukocyte elastase; PMN elastase; granulocyte-derived elastase; EC 3.4.21.37; Elastase-2; Medullasin; EC 3.4.21
Gene ID	1991
mRNA Refseq	NM_001972
Protein Refseq	NP_001963
MIM	130130
UniProt ID	P08246
Chromosome Location	19p13.3

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Function

bacterial cell surface binding; cytokine binding; endopeptidase activity; heparin binding; peptidase activity; protein binding; serine-type endopeptidase activity

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