

Active Native Human ELANE Protein

Cat. No. ELANE-3221H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ELA2 (30 a.a. - 247 a.a.) partial native protein from human blood.
Species	Human
Source	Human Blood
ProteinLength	30-247 a.a.
Description	Elastases form a subfamily of serine proteases that hydrolyze many proteins in addition to elastin. Humans have six elastase genes which encode structurally similar proteins. The encoded preproprotein is proteolytically processed to generate the active protease. Following activation, this protease hydrolyzes proteins within specialized neutrophil lysosomes, called azurophil granules, as well as proteins of the extracellular matrix. The enzyme may play a role in degenerative and inflammatory diseases through proteolysis of collagen-IV and elastin. This protein also degrades the outer membrane protein A (OmpA) of E. coli as well as the virulence factors of such bacteria as Shigella, Salmonella and Yersinia. Mutations in this gene are associated with cyclic neutropenia and severe congenital neutropenia (SCN). This gene is present in a gene cluster on chromosome 19. [provided by RefSeq, Jan 2016]
Form	Liquid
Bio-activity	≥ 18 mU/mg
Molecular Mass	29 kDa

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Purity	> 95% by SDS-PAGE
Applications	Functional Study SDS-PAGE
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Concentration	0.2 mg/mL
Storage Buffer	In 10 mM acetate, pH 5.5
GENE INFORMATION	
Gene Name	ELANE elastase, neutrophil expressed [Homo sapiens (human)]
Official Symbol	ELANE
Synonyms	ELANE; elastase, neutrophil expressed; Elastase, Neutrophil Expressed; Medullasin 2; Bone Marrow Serine Protease; Elastase 2, Neutrophil; Neutrophil Elastase; Leukocyte Elastase; PMN Elastase; Elastase-2; ELA2; HLE; Granulocyte-Derived Elastase; Polymorphonuclear Elastase; Human Leukocyte Elastase; EC 3.4.21.37; EC 3.4.21; PMN-E; SCN1; HNE; GE; NE; neutrophil elastase; PMN elastase; bone marrow serine protease; elastase 2, neutrophil; elastase-2; granulocyte-derived elastase; leukocyte elastase; medullasin; polymorphonuclear elastase
Gene ID	1991
mRNA Refseq	NM_001972
Protein Refseq	NP_001963

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MIM	130130
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UniProt ID	P08246
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