Recombinant Human ELANE Protein, GST-tagged

Cat. No. ELANE-3222H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ELA2 partial ORF (NP_001963, 168 a.a. - 267 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
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]
Molecular Mass	36.74 kDa
AA Sequence	VLQELNVTVVTSLCRRSNVCTLVRGRQAGVCFGDSGSPLVCNGLIHGIASFVRGGC ASGLYPDAFAPVAQFVNWIDSIIQRSEDNPCPHPRDPDPASRTH
Applications	Enzyme-linked Immunoabsorbent Assay

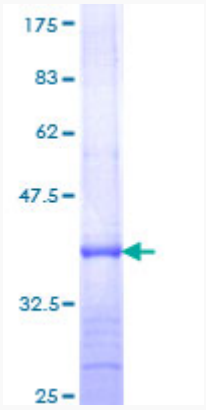
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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
MIM	130130

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UniProt ID	P08246
Quality Control Testing	 12.5% SDS-PAGE Stained with Coomassie Blue.

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