Recombinant Human ELANE Protein, GST-tagged

Cat. No. ELANE-1197H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ELANE Protein (30-267aa) was expressed in E. coli with N-terminal GST-tag.
Species	Human
Source	E.coli
ProteinLength	30-267 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.
Form	Tris-based buffer, 50% glycerol.
Molecular Mass	52.6 kDa

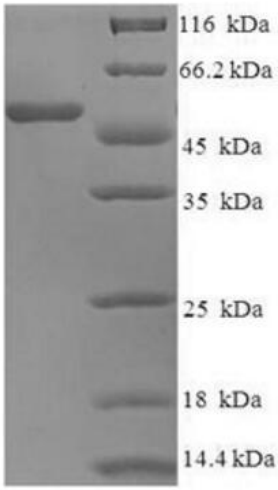
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AA Sequence	IVGGRRARPHAWPFMVSLQLRGGHFCGATLIAPNFVMSAAHCVANVNVRAVRVVL GAHNLSRREPTRQVF AVQRIFENGYDPVNLLNDIVILQLNGSATINANVQVAQLPAQGRRLGNGVQCLAMG WGLLGRNRGIASVL QELNVTVVTSLCRRSNVCTLVRGRQAGVCFGDSGSPLVCNGLIHGIASFVRGGCAS GLYPDAFAPVAQFV NWIDSIIQRSEDNPCPHPRDPDPASRTH
Purity	Greater than 90% as determined by SDS-PAGE.
Storage	The shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

GENE INFORMATION

Gene Name	ELANE elastase, neutrophil expressed [Homo sapiens]
Official Symbol	ELANE
Synonyms	GE; NE; HLE; HNE; ELA2; SCN1; PMN-E
Gene ID	1991
mRNA Refseq	NM_001972.2
Protein Refseq	NP_001963.1
MIM	130130
UniProt ID	P08246

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