

Recombinant Human ELANE Protein (28-252), C-Avi and 6×His tagged

Cat. No. ELANE-16H Lot. No. (See product label)

SPECIFICATION

Product Overview

Recombinant human Elane (Neutrophil Elastase), encompassing amino acids 28-252. The construct contains a C-terminal Avi-Tag™ followed by a His-tag (6×His). The recombinant protein was affinity purified. HiP™ indicates a high purity protein (≥90% pure) and less than 10% aggregation as measured by gel filtration.

The protein appears as two separate bands in SDS PAGE due to slightly different glycosylation patterns. The identity of the protein has been confirmed by protein sequencing (by Edman degradation) of the N-terminus. Both bands are recognized by an anti-His antibody, indicating that the C-terminus is intact.

Species

Human

Source

HEK293

ProteinLength

28-252

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

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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	Aqueous buffer solution
Molecular Mass	27 kDa + glycans
Purity	≥ 90%
Notes	Thaw on ice and gently mix prior to use. DO NOT VORTEX. Perform a quick spin before opening. Aliquot into small volumes and flash freeze for long term storage. Avoid multiple freeze/thaw cycles.
Storage	At least 6 months at -80 centigrade.
Storage Buffer	8 mM phosphate, pH 7.4, 110 mM NaCl, 2.2 mM KCl, 20% glycerol
Shipping	At -80 centigrade
Warning	Avoid freeze/thaw cycles

GENE INFORMATION

Gene Name	ELANE elastase, neutrophil expressed [Homo sapiens (human)]
Official Symbol	ELANE
Synonyms	ELANE; elastase, neutrophil expressed; ELA2, elastase 2, neutrophil; neutrophil elastase; HLE; HNE; leukocyte elastase; medullasin; NE; elastase-2; PMN elastase; elastase 2, neutrophil; human leukocyte elastase; polymorphonuclear elastase; bone

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marrow serine protease; granulocyte-derived elastase; GE; ELA2; SCN1; PMN-E;

Gene ID [1991](#)

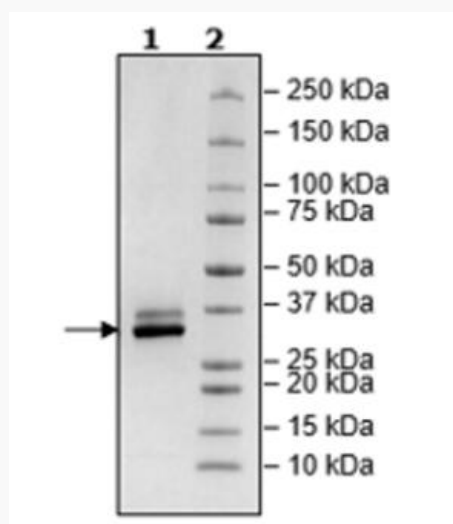
mRNA Refseq [NM_001972](#)

Protein Refseq [NP_001963](#)

MIM [130130](#)

UniProt ID [P08246](#)

SDS-PAGE



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