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Product Information

MemDX™ Membrane Protein Human ELANE (Elastase, neutrophil expressed) expressed in Yeast for Antibody Discovery

Cat. No.: **MP1569J**
This product is for research use only and is not intended for diagnostic use.

This product is a 27.6 kDa Human ELANE membrane protein expressed in Yeast. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species
Human

Target Protein
ELANE

Protein Length
Partial (30-267aa)

Protein Class
Drug Target

Molecular Weight
27.6 kDa

Sequence
IVGGRRARPHAWPFMVSLQLRGGHFCGATLIAPNFVMSAAHCVANVNVRAVRVVLGAHNLSRREPTRQVFAVQRIFENGYDPVNL

Product Description

Expression Systems
Yeast

Tag
N-6xHis

Form
Liquid or Lyophilized powder

Reconstitution
Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-58% of glycerol (final concentration).

Purity

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>90% as determined by SDS-PAGE

Buffer

Liquid: Tris/PBS-based buffer, 5%-50% glycerol
Lyophilized powder: Tris/PBS-based buffer, 6% Trehalose, pH 8.0

Storage

Store at +4°C for up to one week or several months at -80°C

Target

Target Protein

ELANE

Full Name

Elastase, neutrophil expressed

Introduction

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.

Alternative Names

Bone marrow serine protease; ELA2; ELANE; Elastase 2; Elastase 2 neutrophil; Elastase neutrophil expressed; Elastase-2; ELNE_HUMAN; GE; Granulocyte derived elastase; HLE; HNE; Human leukocyte elastase; Leukocyte elastase; Medullasin; NE; Neutrophil elastase; PMN E; PMN elastase; Polymorphonuclear elastase; SCN1; GE; NE; SCN1; PMN-E

Gene ID

1991

UniProt ID

P08246

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