abcam

Product datasheet

Recombinant Human Neutrophil Elastase protein ab158345

1 Image

Description

Product name	Recombinant Human Neutrophil Elastase protein
Expression system	Wheat germ
Accession	**P08246**
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	VLQELNVTVVTSLCRRSNVCTLVRGRQAGVCFGDSGSPL VCNGLIHGIAS FVRGGCASGLYPDAFAPVAQFVNWIDSIIQRSEDNPCPHP RDPDPASRTH
Amino acids	168 to 267
Tags	GST tag N-Terminus
Additional sequence information	NP_001963

Specifications

Our **Abpromise guarantee** covers the use of **ab158345** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Western blot ELISA
Form	Liquid

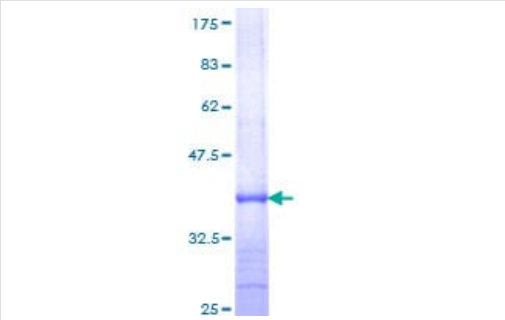
Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.31% Glutathione, 0.79% Tris HCl

General Info

Function	Modifies the functions of natural killer cells, monocytes and granulocytes. Inhibits C5a-dependent neutrophil enzyme release and chemotaxis.
Tissue specificity	Bone marrow cells.
Involvement in disease	Defects in ELANE are a cause of cyclic haematopoiesis (CH) [MIM:162800]; also known as cyclic neutropenia. CH is an autosomal dominant disease in which blood-cell production from the bone marrow oscillates with 21-day periodicity. Circulating neutrophils vary between almost normal numbers and zero. During intervals of neutropenia, affected individuals are at risk for opportunistic infection. Monocytes, platelets, lymphocytes and reticulocytes also cycle with the same frequency. Defects in ELANE are the cause of neutropenia severe congenital autosomal dominant type 1 (SCN1) [MIM:202700]. SCN1 is a disorder of hematopoiesis characterized by a maturation arrest of granulopoiesis at the level of promyelocytes with peripheral blood absolute neutrophil counts below 0.5 x 10(9)/l and early onset of severe bacterial infections.
Sequence similarities	Belongs to the peptidase S1 family. Elastase subfamily. Contains 1 peptidase S1 domain.

Images



SDS-PAGE - Recombinant Human Neutrophil Elastase protein (ab158345)

12.5% SDS-PAGE analysis of ab158345, stained with Coomassie Blue.

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