

Recombinant mouse Neutrophil Elastase/ELA2 protein

Catalog Number: ATGP3873

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

27-265aa

UniProt No.

Q3UP87

NCBI Accession No.

NP_056594.2

Alternative Names

Elane, Ela2, F430011M15Rik, NE, Neutrophil elastase, Elastase-2, Leukocyte elastase

PRODUCT SPECIFICATION

Molecular Weight

26.8 kDa (245aa)

Concentration

0.25mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 30% glycerol

Purity

> 90% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

Neutrophil Elastase, also known as polymorphonuclear leukocyte elastase, is a serine protease that classified as the chymotrypsin family. This protein breaks down elastin, an elastic fiber together with collagen and determines the mechanical properties of connective tissue. The neutrophil form breaks down the Outer membrane protein A (OmpA) of E. coli and other Gram-negative bacteria. Also, this protein is inhibited by the acute-phase protein

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alpha 1-antitrypsin (A1AT), which binds almost irreversibly to the active site of elastase and trypsin. A1AT is normally secreted by the liver cells into the serum. Alpha-1-antitrypsin deficiency (A1AD) leads to uninhibited destruction of elastic fiber by elastase. Recombinant Mouse Neutrophil Elastase, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

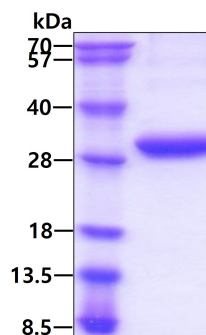
SEIVGGRPAR PHAWPFMASL QRRGGHFCGA TLIARNFVMS AAHCVNGLNF RSVQVVLGAH DLRRQERTRQ TFSVQRIFEN
GFDPSQLLND IVIIQLNGSA TINANVQVAQ LPAQGQGVGD RTPCLAMGWG RLGTNRSPSPS VLQELNVTVV TNMCRRRVNV
CTLVPRRQAG ICFGDSGGPL VCNLNVQGID SFIRGGCGSG LYPDAFAPVA EFADWINSII RSHNDHLLTH PKDREGRTN<H
HHHHH>

General References

Wiesmeier M., et al, (2016) PLoS ONE 11:e0168055.
Sturrock A., et al, (1998) Cytogenet. Cell Genet. 83:104-108.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.