

Neutrophil Elastase/ELA2 Recombinant Protein | ELA2 recombinant protein

Recombinant Neutrophil Elastase/ELA2

CATALOG # AAA48315	HOST Baculovirus	APPLICATIONS SDS-Page
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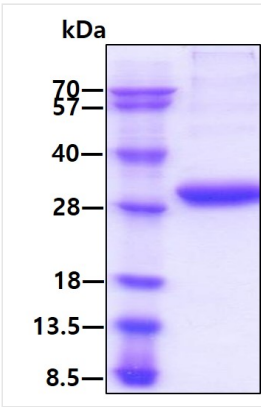
PRODUCT SYNONYMS

Neutrophil Elastase/ELA2; Recombinant Neutrophil Elastase/ELA2; Elane; Ela2; F430011M15Rik; NE; Neutrophil elastase; Elastase-2; Leukocyte elastase; ELA2 recombinant protein

PRODUCT SPECIFICATIONS

Host	Baculovirus
Purity/Purification	>90% by SDS-PAGE
Form/Format	Liquid; In 20mM Tris-HCl Buffer (pH 8.0) Containing 0.1M NaCl, 30% Glycerol.
Concentration	0.25mg/ml (determined by Absorbance at 280nm) (varies by lot)
Sequence Positions	27-265aa
Sequence	SEIVGGRPAR PHAWPFMASL QRRGGHFCGA TLIARNFVMS AAHCVNGLNF RSVQVVLGAH DLRRQERTRQ TFSVQRIFEN GFDPSQLLND IVIIQLNGSA TINANVQVAQ LPAQGQGVGD RTPCLAMGWG RLGTNRPSPS VLQELNVTVV TNMCRRRVNV CTLVPRRQAG ICFGDSGGPL VCNNLVQGID SFIRGGCGSG LYPDAFAPVA EFADWINSII RSHNDHLLTH PKDREGRTNH HHHHH
Sequence Length	265
Applicable Applications for ELA2 recombinant protein	SDS-PAGE
Species	Mouse
Endotoxin	<1 EU per 1ug of protein (determined by LAL method)
Tag	His-Tag
Predicted N-Terminal	Ser 27
Preparation and Storage	For long term storage, aliquot and store at -20 degree C to -80 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



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

ADDITIONAL INFORMATION

Related Product Information for ELA2 recombinant protein	Neutrophil Elastase, also known as polymorphonuclear leukocyte eslastase, 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 alpha1-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.
Product Categories/Family for ELA2 recombinant protein	Immunology
References	Wiesmeier M., et al, (2016) PLoS ONE 11:e0168055. Sturrock A., et al, (1998) Cytogenet. Cell Genet. 83:104-108.

NCBI AND UNIPROT INFORMATION

NCBI GI #	114052444
NCBI GeneID	50701
NCBI Accession #	NP_056594.2
NCBI GenBank Nucleotide #	NP_056594.2
UniProt Accession #	Q3UP87
Molecular Weight	26.8kDa (245aa); 28-40kDa (SDS-PAGE under reducing conditions)
NCBI Official Full Name	neutrophil elastase
NCBI Official Synonym Full Names	elastase, neutrophil expressed
NCBI Official Symbol	Elane
NCBI Official Synonym Symbols	NE; Ela2; F430011M15Rik
NCBI Protein Information	neutrophil elastase
UniProt Protein Name	Neutrophil elastase
UniProt Gene Name	Elane
UniProt Synonym Gene Names	Ela2
UniProt Entry Name	ELNE_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/elane-recombinant-protein-baculovirus-sds-page/48315>