Datasheet for ABIN7596419

ELANE Protein (AA 27-265) (His tag)

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Overview

Quantity:	250 µg
Target:	ELANE
Protein Characteristics:	AA 27-265
Origin:	Mouse
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ELANE protein is labelled with His tag.
Application:	SDS-PAGE (SDS)

Product Details

Sequence:	SEIVGGRPAR PHAWPFMASL QRRGGHFCGA TLIARNFVMS AAHCVNGLNF RSVQVVLGAH DLRRQERTRQ TFSVQRIFEN GFDPSQLLND IVIIQLNGSA TINANVQVAQ LPAQGQGVGD RTPCLAMGWG RLGTNRPSPS VLQELNVTVV TNMCRRRVNV CTLVPRRQAG ICFGDSGGPL VCNNLVQGID SFIRGGCGSG LYPDAFAPVA EFADWINSII RSHNDHLLTH PKDREGRTN
Purity:	> 90% by SDS-PAGE
Endotoxin Level:	< 1 EU per 1ug of protein (determined by LAL method)

Target Details

Target:	ELANE
Alternative Name:	Neutrophil Elastase/ELA2 (ELANE Products)
Background:	Neutrophil Elastase, also known as polymorphonuclear leukocyte eslastase, is a serine

Target Details

	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 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.
Molecular Weight:	26.8 kDa (245aa)
NCBI Accession:	NP_056594

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.25 mg/mL
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Can be stored at +2°C to +8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.