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## Product Data Sheet

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Product Name: ELANE Mouse  
 Cat. No.: GP26146  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Sf9, Insect cells.
Physical Appearance	solid	Shipping Condition	withIcePacks
Synonyms	Elane, Ela2, F430011M15Rik, NE, Neutrophil elastase, Elastase-2, Leukocyte elastase.		
Amino Acid Sequence	SEIVGGRPAR PHAWPFMASL QRRGGHFCGA TLIARNFVMS AAHCVNGLNF RSVQVVLGAHDLRRQERTRQ TFSVQRIFEN GFDPSQLLND IVIIQLNGSA TINANVQVAQ LPAQGQGVGDRTPCCLAMGWG RLG TNRPSPS VLQELNVTVV TNMCRRRVNV CTLVPRRQAG ICFGDSGGPLVCNNLVQGID SFIRGGCGSG LYPDAFAPVA EFADWINSII RSHNDHLLTH PKDREGRTNH HHHHH		
Formulation	ELANE protein solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 30% Glycerol and 0.1M NaCl.		

### Introduction

Elastase-2 (ELANE) is a serine protease that belongs to the chymotrypsin family. ELANE breaks down elastin, an elastic fiber together with collagen and controls 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. ELANE 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 usually secreted by the liver cells into the serum. A1AD leads to uninhibited destruction of elastic fiber by elastase.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

ELANE Mouse produced in Sf9 Insect cells is a single, unglycosylated polypeptide chain (27-

**Caution: Product has not been fully validated for medical applications. For research use only.**

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ELANE (Elastin-like protein) is a synthetic, glycosylated polypeptide chain (aa 265a.a.) fused to a 9 aa His Tag at C-terminus containing 245 amino acids and having a molecular mass of 26.8kDa. ELANE shows multiple bands between 28-40kDa on SDS-PAGE, reducing conditions and purified by proprietary chromatographic techniques.

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