

## 32-6735: ELANE Mouse

**Alternative Name :** Elane, Ela2, F430011M15Rik, NE, Neutrophil elastase, Elastase-2, Leukocyte elastase.

### Description

Source: Sf9, Insect cells.

Sterile Filtered colorless solution.

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.

ELANE Mouse produced in Sf9 Insect cells is a single, glycosylated polypeptide chain (27-265a.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.

### Product Info

**Amount :** 1 µg / 5 µg

**Purification :** Greater than 90.0% as determined by SDS-PAGE.

**Content :** ELANE protein solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 30% Glycerol and 0.1M NaCl.

**Storage condition :** 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.

**Amino Acid :** SEIVGGRPAR PHAWPFMASL QRRGGHFCGA TLIARNFVMS AAHCVNGLNF  
RSVQVVLGAHDLRRQERTRQ TFSVQRIFEN GFDPSQLLND IVIIQLNGSA TINANVQVAQ  
LPAQQQGVGDRTPLAMGWG RLGTNRPSPS VLQELNVTVV TNMCRRRVNV CTLVPRRQAG  
ICFGDSGGPLVCNNLVQGID SFIRGGCGSG LYPDAFAPVA EFADWINSII RSHNDHLLTH PKDREGRTNH  
HHHHH