

ELANE

Human Neutrophil Elastase

Catalog No.	CSI20183A	Quantity:	0.5 mg
	CSI20183B		1.0 mg

Alternate Names: GE, NE, HLE, HNE, ELA2, SCN1, PMN-E

Description: Human neutrophil elastase purified chromatographically from human leukocytes.

Concentration: 1.0 mg/ml

Gene ID: 1991

Source: Human neutrophils

Molecular Weight: 29.6 kDa

Formulation: Frozen liquid in 0.05 M Sodium acetate buffer + 0.6 M NaCl, pH 5.5

Purity: >95% by SDS-PAGE analysis

Endotoxin Level: < 0.1 ng/μg of protein

Specific Activity: 65 IU/mg (One unit will hydrolyze one μM of Methoxy succinyl-alanine-alanine-proline-valine-p-nitroanilide per minute at 37°C and pH 7.5). Activity >10 u/ml @ 37°C.

Storage & Stability: Store at -80°C. Stable at -80°C for 3 years from delivery. Stable for > 1 year at 4°C. **Avoid repeated freeze-thaw cycles.**

Background: The neutrophil form of elastase is 218 amino acids long, with two asparagine-linked carbohydrate chains. Neutrophils are leukocytes whose primary role is to destroy any foreign particles, either by phagocytosis or by release of bacteriostatic agents. Neutrophils contain high concentrations of the serine proteinase neutrophil elastase that is stored in intracellular vacuoles termed the azurophilic granules. This proteinase is a major protein constituent of neutrophils, comprising around 1-3 pg per neutrophil. Their primary role is to digest any pathogens that the neutrophil has phagocytosed. No detectable amounts of Cathepsin G or MPO.

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