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ELANE
Native Human Neutrophil Elastase

Catalog No.	CSI20183A CSI20183B	**Quantity:**	0.5 mg 1.0 mg

Alternate Names:	Bone marrow serine protease, Elastase-2, Human leukocyte elastase, HLE, PMN elastase
Description:	Human neutrophil elastase purified chromatographically from human leukocytes of purulent sputum.
UniProt ID:	P08246
Gene ID:	1991
Source:	Human neutrophils
Molecular Weight:	29.5 kDa
Formulation:	Lyophilized, salt free
Purity:	>95% by SDS-PAGE analysis No detectable cathepsin G, lysozyme, myeloperoxidase
Extinction Coefficient:	$E^{0.1\%}_{280nm}$ = 0.985
Biological Activity:	On unit will hydrolyze 1 nM of substrate per minute at 25°C and pH 7.5
Specific Activity:	800-900 units per mg of protein on the substrate Suc-Ala-Ala-Ala-pNA 15,000-19,000 units/mg with substrate MeO-Suc-Ala-Ala-Pro-Val-pNA
Handling:	Acidic pH 5.0 protects the elastase from autolysis and proteolysis. Inactivation may occur at pH 8.0 due to autolysis and/or proteolysis by trypsin such as bovine pancreatic trypsin. Proteolysis can be inhibited by benzamidine. Autolysis and proteolysis can be inhibited by elastatinal. However, elastatinal is also an inhibitor of elastase. Recommended concentrations and solutions for reconstitution: 1. 1 mg/ml in 0.05 M Na Acetate pH 5.0 containing 0.1 M NaCl. Stable 7 days at 5°C (on ice) 2. 10 mg/ml in 50% glycerol/50% 0.02 M Na Acetate pH 5. Stable at least 60 days at -20°C with 20 cycles between -20°C and 5°C 3. May be reconstituted at 10 mg/ml in 2 mM HoAc and re-lyophilized in smaller quantities
Storage & Stability:	Store as supplied for up to 1 year at 2-8°C.
Certification:	Prepared from tissue shown to be non-reactive for HbsAG, anti-HCV, anti-HBc, and negative for anti-HIV 1 & 2 by FDA approved tests.

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