

ELANE

Native Human Neutrophil Elastase

Catalog No.	CRN115A	Quantity:	100 µg
	CRN115B		1.0 mg
	CRN115C		5.0 mg

Alternate Names: ELA-2, GE, NE, HLE, HNE, ELA2, SCN1, PMN-E

Description: Chromatographically purified from human leucocytes and lyophilized. The protein is greater than 95 percent pure by SDS-PAGE and is free of cathepsin G, MPO and lysozyme. 800-900 units per mg of protein on the substrate Suc-Ala-Ala-Ala-pNA and 15000-19000 units per mg protein on the substrate MeO-Suc-Ala-Ala-Pro-Val-pNA. One unit will hydrolyze 1 umole of substrate per minute at pH 7.5 and 25 °C. Proteolysis can be inhibited by benzamidine. Autolysis and proteolysis can be inhibited by elastatinal. However, elastatinal is also an inhibitor of elastase. Low pH protects the elastase from both autolysis and proteolysis.

Gene ID: 1991

UniProtKB: P08246

Source: Human neutrophils

Purity: ≥ 96% by SDS-PAGE

Formulation: Liquid in 50 mM sodium acetate, 600 mM NaCl, pH 5.5

Specific Activity: Lot specific, measured as one unit will hydrolyze one micromole of Methoxy succinyl-alanine-alanine-proline-valine-p-nitroanilide per minute at 37 °C and pH 7.5.

Storage & Stability: Store at 2-4 °C for up to one year.

Statement: Non-Infectious Disease Certification: Non-reactive for HIV-1/HCV/HBV by NAT; HBsAg, HCV Ab, HIV-1&2 Ab and RPR by currently approved FDA methods. However, because no test method can offer complete assurance that infectious agents are absent, this material should be handled at Bio-Safety Level 2 (BSL 2) as recommended for potentially infectious human serum or blood specimen in the CCD/NIH manual "Biosafety in Microbiological and Biomedical Laboratories", 2009.

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