

ELANE

Native Human Neutrophil Elastase

Catalog No.	CRN115AL CRN115BL CRN115CL	Quantity:	100 µg 1.0 mg 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 neutrophil		
Formulation:	Lyophilized in acetate buffer		
Purity:	≥96% by SDS-PAGE		
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.		
Reconstitution:	Recommend reconstitution at ≥ 1 mg/mL in a buffer such as Tris-buffered saline, pH 7.5. Further dilutions should include a carrier such as 1% BSA.		
Storage & Stability:	Upon receipt , store desiccated at 2-4 °C for up to one year. Upon reconstitution , store in working aliquots between -20 to -80°C. Avoid repeated freeze-thaw cycles.		
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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