

Elastase, Human Neutrophil

CATALOG #:	4716-100
AMOUNT:	100 µg
SOURCE:	Human Neutrophil. Shown to be non reactive for HBsAg, anti-HCV, anti-HBc, and negative for anti-HIV 1 & 2 by FDA approved tests.
PURITY:	≥95% by SDS-PAGE
MOLECULAR WT:	29,500; $\epsilon_{0.1\%}$ (280 nm) = 0.985
FORM:	Salt-free lyophilized solid
STORAGE:	-20°C
ACTIVITY:	20-22 units per mg protein. One unit is defined as the amount of enzyme that hydrolyzes one micromole of Meo-Suc-Ala-Pro-Val-pNA per minute at 25°C in 100 mM Tris-HCl, pH 7.5, with 500 mM NaCl.
RECONSTITUTION:	Deionized water
DESCRIPTION:	Elastase, like trypsin and chymotrypsin, is a serine protease that also hydrolyses amides and esters. It is produced in the pancreas as an inactive zymogen, proelastase, and activated in the duodenum by trypsin. Elastase is distinctive in that it acts upon elastin. This enzyme degrades elastin, collagen, and proteoglycan and has been implicated in the development of pulmonary emphysema and rheumatoid arthritis.

RELATED PRODUCTS:

- MMP-12 Polyclonal Antibody (**Cat. No. 3532R-100**)
- MMP-12 Polyclonal Antibody (**Cat. No. 3732-100**)
- Trypsin Activity Assay Kit (**Cat. No. K771-100**)

OTHER RELATED PRODUCTS:

Apoptosis Detection Kits & Reagents

- Annexin V Kits & Bulk Reagents
- Caspase Assay Kits & Reagents
- Mitochondrial Apoptosis Kits & Reagents
- Nuclear Apoptosis Kits & Reagents
- Apoptosis Inducers and siRNA Vectors

Cell Fractionation System

- Mitochondria/Cytosol Fractionation Kit
- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

Cell Proliferation & Senescence

- Quick Cell Proliferation Assay Kit
- Senescence Detection Kit
- LDH-Cytotoxicity Assay Kit
- Live/Dead Cell Staining Kit

Cell Damage & Repair

- HDAC & HAT Fluorometric & Colorimetric Assays & Drug Discovery Kits
- DNA Damage Quantification Kit
- Glutathione & Nitric Oxide Fluorometric & Colorimetric Assay Kits
- SOD Assay Kit

Signal Transduction

- cAMP & cGMP Assay Kits
- Akt & JNK Activity Assay Kits
- Beta-Secretase Activity Assay Kit

Metabolism Assays

- Glucose, Fructose, Galactose, Maltose & more assays
- Lactate, Pyruvate, Glycogen, Sarcosine assays
- Cholesterol, HDL/LDL, Triglyceride, CETP, PLTP assays

Molecular Biology & Reporter Assays

- siRNA Vectors
- Cloning Insert Quick Screening Kit
- Mitochondrial & Genomic DNA Isolation Kits
- 5 Minutes DNA Ligation Kit

Cytokines & Growth Factors