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Product datasheet for BA185

Neutrophil elastase Human Protein

Product data:

Product Type:	Native Proteins
Description:	Neutrophil elastase human protein, 0.1 mg
Species:	Human
Protein Source:	Neutrophils
Concentration:	lot specific
Purity:	>95% pure by SDS-PAGE
Buffer:	Presentation State: Purified State: Lyophilized purified protein containing no preservatives.
Reconstitution Method:	Restore with 50mM Sodium Acetate, pH 5.5 containing 150mM Sodium Chloride.
Preparation:	Lyophilized purified protein containing no preservatives.
Protein Description:	Human Neutrophil Elastase.
Note:	Caution: Prepared from whole blood shown to be nonreactive for HBsAg, anti-HCV, anti-HBc, and negative for anti-HIV 1 & 2 by FDA licensed tests. No test guarantees a product to be non-infectious. Therefore, all material derived from human fluids or tissues should be considered as potentially infectious.
Storage:	Store the antigen at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: six months from despatch.
RefSeq:	NP_001963
Locus ID:	1991
Cytogenetics:	19p13.3
Synonyms:	ELA2; GE; HLE; HNE; NE; PMN-E; SCN1

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Summary: Elastases form a subfamily of serine proteases that hydrolyze many proteins in addition to elastin. Humans have six elastase genes which encode structurally similar proteins. The encoded preproprotein is proteolytically processed to generate the active protease. Following activation, this protease hydrolyzes proteins within specialized neutrophil lysosomes, called azurophil granules, as well as proteins of the extracellular matrix. The enzyme may play a role in degenerative and inflammatory diseases through proteolysis of collagen-IV and elastin. This protein also degrades the outer membrane protein A (OmpA) of E. coli as well as the virulence factors of such bacteria as Shigella, Salmonella and Yersinia. Mutations in this gene are associated with cyclic neutropenia and severe congenital neutropenia (SCN). This gene is present in a gene cluster on chromosome 19. [provided by RefSeq, Jan 2016]

Protein Families: Protease, Transmembrane

Protein Pathways: Systemic lupus erythematosus