

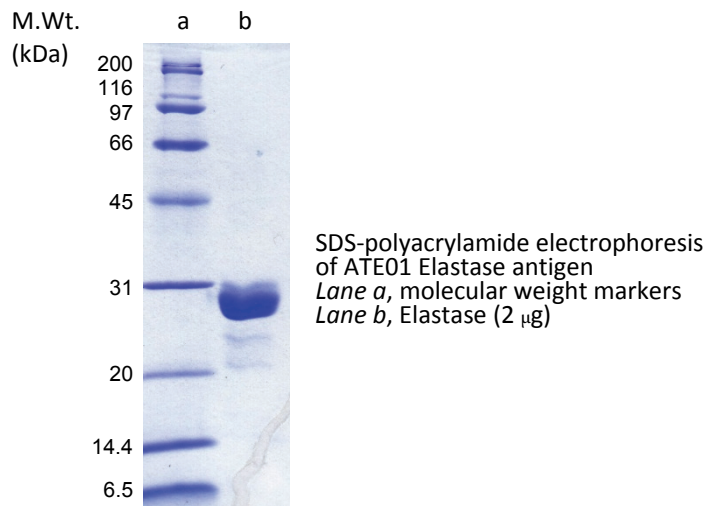
Product datasheet:

Elastase (neutrophil)

Overview

Product name:	Elastase
Alternative names:	Elastase-2, human leukocyte elastase, HLE, PMN elastase, medullasin
E.C. No.:	3.4.21.37
Uniprot:	Accession number P08246
Description:	30 kDa glycosylated protein
Source material:	Human neutrophils
Purity:	>90% by SDS-polyacrylamide electrophoresis
Purification:	purified using conventional chromatography procedures
Clinical applications:	Elastase levels have been found to be of significance in various forms of cancer, neonatal infection, acute lung injury, genital tract infection and inflammatory bowel disease. Autoantibodies to elastase have been shown to occur in Wegener's granulomatosis and other inflammatory disorders. Genetic elastase defects are a cause of cyclic haematopoiesis (CH) and severe congenital neutropenia autosomal dominant type 1 (SCN1)

Images



References

- Baugh, R.J., Travis, J. (1976) Human leukocyte elastase: rapid isolation and characterization. *Biochemistry* **15**, 836-41
- Navia, M.A. et al. (1989) Structure of human neutrophil elastase in complex with peptide chloromethyl ketone inhibitor at 1.84-Å resolution. *Proc. Natl. Acad. Sci. USA* **86**, 7-11
- Sato, T. et al. (2006) Neutrophil elastase and cancer. *Surg. Oncol.* **15**, 217-22
- Ho, A.-S. et al. (2014) Neutrophil elastase as a diagnostic marker and therapeutic target in colorectal cancers. *Oncotarget* **5**, 473-80
- Philip, A.G. et al. (1994) Neutrophil elastase in the diagnosis of neonatal infection. *Pediatr. Infect. Dis. J.* **4**, 323-6
- Zorn, B. et al. (2003) Semen polymorphonuclear neutrophil elastase as a diagnostic and prognostic marker of genital tract inflammation - a review. *Clin. Chem. Lab. Med.* **41**, 2-12
- Langhorst, J. et al. Noninvasive markers in the assessment of intestinal inflammation in inflammatory bowel diseases: performance of fecal lactoferrin, calprotectin, and PMN-elastase, CRP and clinical indices. *Am. J. Gastroenterol.* **103**, 162-9
- Cohen Tervaert, J.W. et al. (1993) Occurrence of autoantibodies to human leukocyte elastase in Wegener's granulomatosis and other inflammatory bowel disorders. *Ann. Rheum. Dis.* **52**, 115-20
- Dale, D.C. et al. (2000) Mutations in the gene encoding neutrophil elastase in congenital and cyclic neutropenia. *Blood* **96**, 2317-22

Ordering information

ATE01-02	Elastase (from human neutrophils)	0.20 mg
ATE01-10	Elastase (from human neutrophils)	1.0 mg