For Research Use Only

Recombinant Human Neutrophil Elastase protein (rFc Tag)

www.ptgcn.com

Catalog Number: Eg3192

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<0.1 EU/μg protein, LAL method

Source:
HEK293-derived Human Neutrophil Elastase protein Ser28-His267 (Accession# P08246) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
1991

Accession:
P08246

Predicted Molecular Mass:
52.1 kDa

SDS-PAGE:
48-60 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:
It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20℃ to -80℃ as lyophilized proteins.
- 3 months, -20℃ to -80℃ under sterile conditions after reconstitution.

Shipping:
The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

ELA2(Neutrophil elastase) is also named as ELAL, NE, HLE, HNE, PMN-E, SERP1, GE, ELANE and belongs to the peptidase S1 family. It is a 33-kDa enzyme with several isoforms that differ in their extent of glycosylation. Human neutrophil elastase (HNE) is a serine protease with potent proteolytic activity, which is reported to cause mucin secretion (degranulation). It may contribute to the directed migration of leukocytes into flamed postcapillary venules in addition to contributing to the process of tissue emigration. The full length protein has a signal peptide,propeptide and three glycosylation sites.

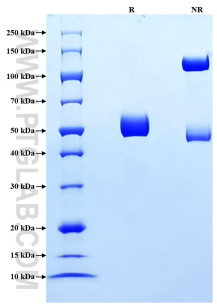
References

1.Kawabata K, Hagio T,Matsuoka S. (2002) Eur J Pharmacol. 451 (1):1-10.
2.Kohri K,Ueki IF,Nadel JA. (2002) Am J Physiol Lung Cell Mol Physiol. 283 (3):L531-40.
3.Carden, D et al.(1998) The American journal of physiology. 275, 2: H385-92.

Synonyms

ELA2, ELANE, EC:3.4.21.37, Elastase 2, HLE

Selected Validation Data



Purity of Recombinant Human Neutrophil Elastase was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.