

Recombinant Naja kaouthia Cobra venom factor,partial

Catalog No: #AP76615

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Package Size: #AP76615-1 20ug #AP76615-2 100ug #AP76615-3 1mg

Description

Product Name	Recombinant Naja kaouthia Cobra venom factor,partial
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:733-984aaSequence Info:Partial
Other Names	Complement C3 homolog
Accession No.	Q91132
Uniprot	Q91132
Calculated MW	55.4 kDa
Tag Info	N-terminal GST-tagged
Target Sequence	DDNEDGFIADSDIISRSDFPKSWLWLTkDLTEEPNSQGISSKTMSFYLRDSITTWVVLAVSFTPTKGICVAEPYE IRVMKVFFIDLQMPYSVVKNEQVEIRAILHNYVNEDIYVRVELLYNPAFCASASTKGQRYRQQFPKALSSRAVPF VIVPLEQGLHDVEIKASVQEALWSDGVRKKLKVVPEGVQKSIVTIVKLDPRAKGVGGTQLEVIKARKLDDRVPD TEIETKIIQGDPAQIIENSIDGSKLN
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Complement-activating protein in cobra venom. It is a structural and functional analog of complement component C3b, the activated form of C3. It binds factor B (CFB), which is subsequently cleaved by factor D (CFD) to form the bimolecular complex CVF,Bb. CVF,Bb is a C3,C5 convertase that cleaves both complement components C3 and C5. Structurally, it resembles the C3b degradation product C3c, which is not able to form a C3,C5 convertase. Unlike C3b,Bb, CVF,Bb is a stable complex and completely resistant to the actions of complement regulatory factors H (CFH) and I (CFI). Therefore, CVF continuously activates complement resulting in the depletion of complement activity.

References

"Molecular cloning and derived primary structure of cobra venom factor."Fritzinger D.C., Bredehorst R., Vogel C.-W.Proc. Natl. Acad. Sci. U.S.A. 91:12775-12779(1994)Research Topic:Others

Note: This product is for in vitro research use only