

Cobra venom factor Protein, Naja kaouthia, Recombinant (His & SUMO)

General Information

Synonyms:	Cobra venom factor; CVF; CVFk; Complement C3 homolog
Protein Construction:	733-984 aa
Species:	Naja kaouthia
Expression Host:	E. coli
Accession:	Q91132
Molecular Weight:	44.4 kDa (predicted)
AA Sequence:	DDNEDGFIADSDIISRSDFPKSWLWLTkdLTEEPNSQGISSKtMSFYLRDSITTWVVLAVSFTPTKGICVAEPYEI RVMKVFFIDLQMPYSVVKNEQVEIRAILHNYVNEIYVRVELLYNPAFCSASTKGQRYRQQFPiKALSSRAVPF VIVPLEQGLHDVEIKASVQEALWSDGVRKkLVVPEGVQKSIVTIVKLDPRAKGVGGTQLEVIKARKLDDRVPD TEIETKIIIQGPVAQIIENSIDGSKLN

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein 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.

A DRUG SCREENING EXPERT

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.

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