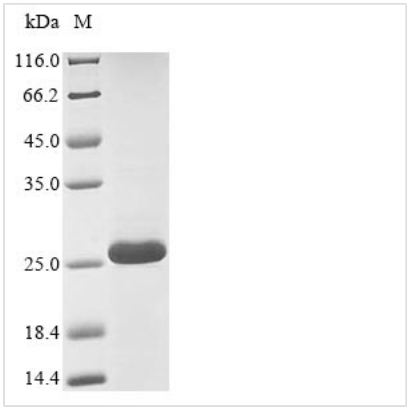
Recombinant Conus vexillum Alpha-conotoxin VxXXC

Product Code	CSB-EP314942DWK
Relevance	Alpha-conotoxins act on postsynaptic membranes, they bind to the nicotinic acetylcholine receptors (nAChR) and thus inhibit them. This toxin specifically blocks mammalian neuronal nAChR of the alpha-7/CHRNA7, alpha-3-beta-2/CHRNA3-CHRNB2 and alpha-4-beta-2/CHRNA4-CHRNB2 subtypes. VxXXA and VxXXB inhibit alpha-7/CHRNA7 and alpha-3-beta-2/CHRNA3-CHRNB2 nAChR more efficiently than VxXXC. VxXXB is the most effective at inhibiting alpha-4-beta-2/CHRNA4-CHRNB2 nAChR, followed by VxXXC and VxXXA.
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.
Uniprot No.	P0C1W7
Product Type	Recombinant Protein
Immunogen Species	Conus vexillum (Flag cone)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	DLRQCTRNAPGSTWGRCCLNPMCGNFCCPRSGCTCAYNWRRGIYCSC
Lead Time	3-7 business days
Research Area	Others
Source	E.coli
Protein Names	VxXIIC
Expression Region	1-47aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-SUMO-tagged and C-terminal Myc-tagged
Mol. Weight	25.3 kDa
Protein Description	Full Length
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

The recombinant Conus vexillum alpha-conotoxin VxXXC is expressed in E.coli. Its expression region is the full-length amino acid sequence (1-47AA) of the Conus vexillum. It is fused with 10xHis-SUMO-tag at the N terminus and Myc-tag at the C-terminus. Its purity is greater than 85% determined by the SDS-PAGE. On the gel, this recombinant protein migrated to the molecular weight band of approximately 25 kDa. It is available now.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.