

Recombinant Clostridium Botulinum BOTA Protein (1-436 aa), His-SUMO-tagged

Cat. No. BOTA-881C **Lot. No.** (See product label)

SPECIFICATION

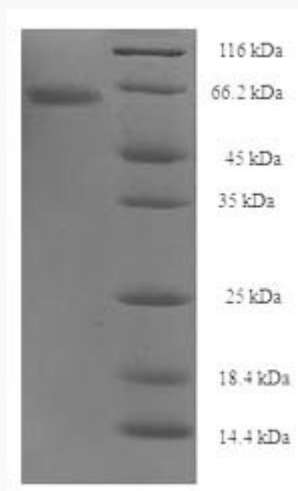
Product Overview	Recombinant Clostridium Botulinum BOTA Protein (1-436 aa) is produced by E. coli expression system. This protein is fused with a 6xHis-SUMO tag at the N-terminal. Protein Description: Partial.
Species	Clostridium Botulinum
Source	E.coli
ProteinLength	1-436 aa
Description	Inhibits acetylcholine release. The botulinum toxin binds with high affinity to peripheral neuronal presynaptic mbrane to the secretory vesicle protein SV2. It binds directly to the largest luminal loop of SV2A, SV2B and SV2C. It is then internalized by receptor-mediated endocytosis. The C-terminus of the heavy chain (H) is responsible for the adherence of the toxin to the cell surface while the N-terminus mediates transport of the light chain from the endocytic vesicle to the cytosol. After translocation, the light chain (L) hydrolyzes the 197-Gln- -Arg-198 bond in SNAP-25, thereby blocking neurotransmitter release. Inhibition of acetylcholine release results in flaccid paralysis, with frequent heart or respiratory failure.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	66.0 kDa

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AA Sequence	MPFVNKQFNYKDPVNGVDIAYIKIPNVGQMGPVKAFKIHNKIWVIPERDTFTNP EEGD LNPPPEAKQVPVSYDSTYLSTDNEKDNYLKGVTKLFERIYSTDLGRMLLSIVRGIP FWGGSTIDTELKVIDTNCINVIQPDGSYRSEELNLVIIGPSADIIQFECKSFGHEVLNLT RNGYGSTQYIRFSPDFTFGFEESLEVDTNPLL GAGKFATDPAVTLAHELIHAGHRLY GIAINPNRVFKVNTNAYYEMSGLEVSFEELRTFGGHD AKFIDSLQENEFRLYYYNKFK DIASTLNKAKSIVGTTASLQYMKNVFKEKYLLSEDTSGKFSVDKLFDKLYKMLTEIYT EDNFVKFFKVLNRKTYLNFDKAVFKINIVPKVNYTIYDGFNLRNTNLAANFNGQNT E IN NMNFTKLKNFTGLFEFYKLLCVRGIIT
Purity	> 90% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
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 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Concentration	A hardcopy of COA with concentration instruction is sent along with the products.
GENE INFORMATION	
UniProt ID	P0DPIO



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

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