

Botulinum neurotoxin type D Recombinant Protein | botD recombinant protein

Recombinant Clostridium botulinum Botulinum neurotoxin type D

CATALOG # AAA115132	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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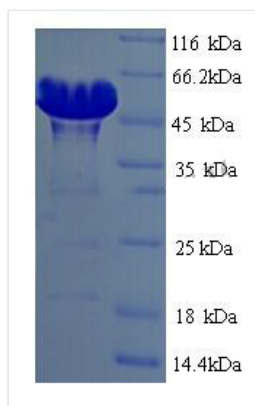
PRODUCT SYNONYMS

Botulinum neurotoxin type D; Recombinant Clostridium botulinum Botulinum neurotoxin type D; Bontoxilysin-D; botD recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	1-442aa; partial
Sequence	MTWPVKDFNY SDPVNDNDIL YLRIPQNKLI TTPVKAFMIT QNIWWIPERF SSDTNPSLSK PPRPTSKYQS YYDPSYSLTD EQKDTFLKGI IKLFKRINER DIGKKLINYL VVGSPFMGDS STPEDTFDFT RHTTNIAVEK FENGSWKVTN IITPSVLIFG PLPNILDYTA SLTLQGQSN PSFEGFGTSL ILKVAPEFLL TFSDVTSNQS SAVLGKSIFC MDPVIALMHE LTHSLHQLYG INIPSDKRIR PQVSEGFFSQ DGPVQFEEL YTFGGLDVEI IPQIERSQLR EKALGHYKDI AKRLNNINKT IPSSWISNID KYKKIFSEKY NFDKDNTGNF VVNIDKFNSL YSDLTNVMSE VVYSSQYNVK NRTHYFSRHY LPVFANILDD NIYTIRDGFN LTNKGFNIEI SGQNIERNPA LQKLSSSESVV DLFTKVCLRL TK
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for botD recombinant protein	Botulinum toxin acts by inhibiting neurotransmitter release. It binds to peripheral neuronal synapses, is internalized and moves by retrograde transport up the axon into the spinal cord where it can move between postsynaptic and presynaptic neurons. It inhibits neurotransmitter release by acting as a zinc endopeptidase that cleaves the '60-Lys- -Leu-61' bond of synaptobrevins-1 and -2.
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References	Nucleotide sequence of the gene encoding Clostridium botulinum neurotoxin type D.Binz T., Kurazono H., Popoff M.R., Eklund M.W., Sakaguchi G., Kozaki S., Krieglstein K., Henschen A., Gill D.M., Niemann H.Nucleic Acids Res. 18:5556-5556(1990) The complete amino acid sequence of the Clostridium botulinum type D neurotoxin, deduced by nucleotide sequence analysis of the encoding phage d-16 phi genome.Sunagawa H., Ohyama T., Watanabe T., Inoue K.J. Vet. Med. Sci. 54:905-913(1992) Molecular diversity of neurotoxins from Clostridium botulinum type D strains.Moriishi K., Syuto B., Kubo S., Oguma K.Infect. Immun. 57:2886-2891(1989) Cleavage of members of the synaptobrevin/VAMP family by types D and F botulinal neurotoxins and tetanus toxin.Yamasaki S., Baumeister A., Binz T., Blasi J., Link E., Cornille F., Roques B., Fykse E.M., Suedhof T.C., Jahn R., Niemann H.J. Biol. Chem. 269:12764-12772(1994) Structure of botulinum neurotoxin type D light chain at 1.65 A resolution repercussions for VAMP-2 substrate specificity.Arndt J.W., Chai Q., Christian T., Stevens R.C.Biochemistry 45:3255-3262(2006)
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NCBI AND UNIPROT INFORMATION

NCBI GI #	115188
UniProt Accession #	P19321
Molecular Weight	52.5 kDa
NCBI Official Full Name	Botulinum neurotoxin type D
UniProt Protein Name	Botulinum neurotoxin type D
UniProt Gene Name	botD
UniProt Synonym Gene Names	BoNT/D
UniProt Entry Name	BXD_CLOBO

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/botd-recombinant-protein-e-coli/115132>