

Botulinum neurotoxin type B Recombinant Protein | botB recombinant protein

Recombinant Clostridium botulinum Botulinum neurotoxin type B

CATALOG # AAA115042	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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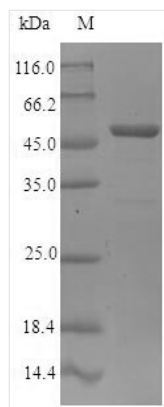
PRODUCT SYNONYMS

Botulinum neurotoxin type B; Recombinant Clostridium botulinum Botulinum neurotoxin type B; Bontoxilysin-B; botB 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	1-427aa; Partial
Sequence	MPVTINNFNY NDPIDNNNII MMEPPFARGT GRYKAFKIT DRIWIIPERY TFGYKPEDFN KSSGIFNRDV CEYYDPDYLN TNDKKNIFLQ TMIKLFNRIK SKPLGEKLE MIINGIPYLG DRRVPLEEFN TNIASVTNKK LISNPGEVER KKGIFANLII FGPGPVLNEN ETIDIGIQNH FASREGFGGI MQMKFCPEYV SVFNNVQENK GASIFNRRGY FSDPALILMH ELIHVLHGLY GIKVDDLPIV PNEKKFFMQS TDAIQAEELY TFGGQDPSII TPSTDKSIYD KVLQNFGRIV DRLNKVLVCI SDPNININIIY KNKFKDKYKF VEDSEGKYSI DVESFDKLYK SLMFGFTETN IAENYKIKTR ASYFSDSLPP VKIKNLLDNE IYTIEEGFNI SDKDMEKEYR GQNKAINKQA YEEISKE
Production Note	Special Offer: The E Coli, Yeast host-expressed protein is manufactured from a stock plasmid containing the protein gene. E Coli, Yeasthost-expressed protein is stocked in different unit sizes ranging from as small as 10 ug to as large as 1 mg. Bulk inventory is also available. The E Coli, Yeast host-expressed protein has been ordered over and over again by researchers and has stood the test of time as both a robust protein and important target for the research community. It is part of our new program to make our most popular protein targets and corresponding hosts available in expanded unit sizes and with a quick processing time. Select E Coli, Yeast host-expressed protein for the fastest delivery among all hosts. Please contact our or email to for more details.
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 botB 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 '76-Gln-I-Phe-77' bond of synaptobrevin-2.
References	Molecular cloning of the Clostridium botulinum structural gene encoding the type B neurotoxin and determination of its entire nucleotide sequence.Whelan S.M., Elmore M.J., Bodsworth N.J., Brehm J.K., Atkinson T., Minton N.P.Appl. Environ. Microbiol. 58:2345-2354(1992) Szabo E.A., Pemberton J.M., Desmarchelier P.M. Gene probes for identification of the botulinal neurotoxin gene and specific identification of neurotoxin types B, E, and F.Campbell K.D., Collins M.D., East A.K.J. Clin. Microbiol. 31:2255-2262(1993) Botulinum neurotoxin type B (strain 657) partial sequence and similarity with tetanus toxin.Dasgupta B.R., Datta A.Biochimie 70:811-817(1988) Botulinum neurotoxins are zinc proteins.Schiavo G., Rossetto O., Santucci A., Dasgupta B.R., Montecucco C.J. Biol. Chem. 267:23479-23483(1992) Tetanus and botulinum-B neurotoxins block neurotransmitter release by proteolytic cleavage of synaptobrevin.Schiavo G., Benfenati F., Poulain B., Rossetto O., de Laureto P.P., Dasgupta B.R., Montecucco C.Nature 359:832-835(1992)

NCBI AND UNIPROT INFORMATION

NCBI GI #	399134
UniProt Accession #	P10844; P10843
Molecular Weight	51.3 kDa
NCBI Official Full Name	Botulinum neurotoxin type B
UniProt Protein Name	Botulinum neurotoxin type B
UniProt Gene Name	botB
UniProt Synonym Gene Names	BoNT/B
UniProt Entry Name	BXB_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.