

Recombinant Clostridium botulinum Botulinum neurotoxin type B

Catalog No: #AP72882

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Package Size: #AP72882-1 20ug #AP72882-2 100ug #AP72882-3 1mg

Description

Product Name	Recombinant Clostridium botulinum Botulinum neurotoxin type B
Brief Description	Recombinant Protein
Host Species	Yeast
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-427aaSequence Info:Partial
Other Names	Bontoxilysin-B
Accession No.	P10844
Uniprot	P10844
Calculated MW	51.3 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	MPVTINNFNYNDPIDNNNIIMMEPPFARGTGRIYKAFKITDRIWIIPERYTFGYKPEDFNKSSGIFNRDVCYYD PDYLNNTDKKNIFLQTMIKLFNRIKSKPLGEKLEMIINGIPYLGDRRVPLEEFNTNIASVTVNKLISNPGEVERKK GIFANLIIFGPGPVLNENETIDIGIQNHFASREGFGGIMQMKFCPEYVSFVNNVQENKGASIFNRRGYFSDPALIL MHELIHVLHGLYGIVKVDLPIVNEKFFMQSTDAIQAEELYTFGGQDPSIITPSTDKSIYDKVLQNFGRGIVDRLN KVLVCISDPNININIKNFKDKYKFVEDSEGKYSIDVESFDKLYKSLMFGFTETNIAENYKIKTRASYFSDSLPPV KIKNLLDNEIYTIEEGFNISDKDMEKEYRGQNKAINKQAYEEISKE
Formulation	Tris-based buffer50% glycerol
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.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

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-[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)Research Topic:Others

Note: This product is for in vitro research use only