

Recombinant Clostridium botulinum Botulinum neurotoxin type C1,partial

Catalog No: #AP71029

Package Size: #AP71029-1 20ug #AP71029-2 100ug #AP71029-3 1mg

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Description

Product Name	Recombinant Clostridium botulinum Botulinum neurotoxin type C1,partial
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:2-428aaSequence Info:Partial
Accession No.	P18640
Calculated MW	64.9 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	PITINNFNYS DPVDNKNILYLDTHLNTLANEPEKA FRITGNIWVIPDRFSRNSNP NLNKP PRVTSPKSGYYDPNY LSTDSDKDPFLKEI IKLFKRINSREIGEELIYRLSTDIPFP GNNNTPI NTDFD VDFNSVDVKTRQGNNWVKTGSI NPSVIITGP RENIIDPETSTFKLTNNTFAAQEGFGALSIISIPRFLTYSNATNDVGEGRFSKSEFCMDPILIMH ELNHAMHNLYGIAIPNDQTISSVTSNIFYSQYNVKLEYAEIYAFGGPTIDLIPKSARKYFEEKALDYYRSIAKRLNS ITTANPSSFNKYIGEYKQKLIRKYRFVVESSGEVTVNRNKFVELYNELTQIFTEFN YAKIYNVQNRKIYLSNVYTP VTANILDDNVYDIQNGFNIPKSNLNVLFMGQNL SRNPALRKVNPEN
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 syntaxin.

References

Botulinum neurotoxin C1 blocks neurotransmitter release by means of cleaving HPC-1,syntaxin.Biasi J., Chapman E.R., Yamasaki S., Binz T., Niemann H., Jahn R.EMBO J. 12:4821-4828(1993)Research Topic:Others

Note: This product is for in vitro research use only and is not intended for use in humans or animals.