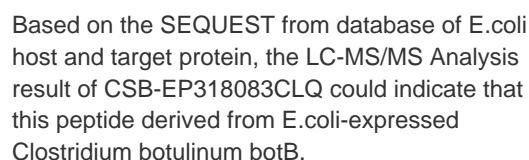
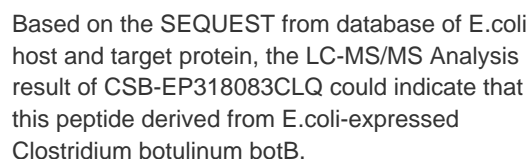




Recombinant Clostridium botulinum Botulinum neurotoxin type B (botB), partial

Product Code	CSB-EP318083CLQ
Abbreviation	Recombinant Clostridium botulinum botB protein, partial
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.
Uniprot No.	P10844
Product Type	Recombinant Protein
Immunogen Species	Clostridium botulinum
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	MPVTINNFNYNDPIDNNNIIMMEPPFARGTGRIYKAFKITDRIWIIPERYTFGYK PEDFNKSSGIFNRDVCEYYDPDYLNTNDKKNIFLQTMIKLFNRIKSKPLGEKLL MIINGIPYLGDRRVPLEEFNTNIASVTVNKLISNPGEVERKKGIFANLIIFGPGPVL NENETIDIGIQNHFASREGFGGIMQMKFCPEYVSFNNVQENKGASIFNRRGY FSDPALILMHELIHVLHGLYGIKVDLPIVPNEKKFFMQSTDAIQAEELYTFGGQ DPSIITPSTDKSIYDKVLQNFRGIVDRNLKVLVCISDPNININIKNFKDKYKFVE DSEGKYSIDVESFDKLYKSLMFGFTETNIAENYKIKTRASYFSDSLPPVKIKNLL DNEIYTIEEGFNISDKDMEKEYRGQNKAINKQAYEEISKE
Research Area	Others
Source	E.coli
Target Names	botB
Protein Names	Recommended name: Botulinum neurotoxin type B Short name= BoNT/B EC= 3.4.24.69 Alternative name(s): Bontoxilysin-B Cleaved into the following 2 chains: 1. Botulinum neurotoxin B light chain 2. Botulinum neurotoxin B heavy cha
Expression Region	1-427aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-B2M-tagged
Mol. Weight	63.3 kDa
Protein Length	Partial
Image	



BotB is a *Clostridium botulinum*-expressed toxin that reduces muscle hyperactivity through its function at the neuromuscular junction. Once released into the cytosol, botB undergoes a multistep cascade of binding, internalization, cytosolic escape, and cleavage of the vesicle protein VAMP/SNAP-25 through its light chain (LV), resulting in the blockade of synaptic vesicle exocytosis and acetylcholine release at the neuromuscular junction. This process leads to transient denervation and weakening of muscle contractions responsible for excessive involuntary movements. The major neuronal receptor for botB is synaptotagmin II (Syt II). BotB is commonly used as a biopharmaceutics for neurological diseases.

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final



concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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.