



# Recombinant Clostridium botulinum Botulinum neurotoxin type F(botF),partial

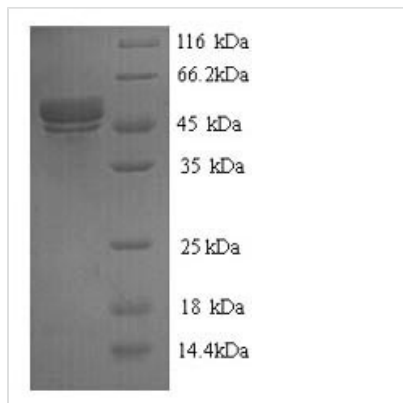
|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Code</b>      | CSB-YP341192CLQ                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Relevance</b>         | 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 catalyzes the hydrolysis of the '58-Gln- -Lys-59' bond of synaptobrevins-1 and -2.                                                              |
| <b>Storage</b>           | 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.                                                                                                                                                                                                       |
| <b>Uniprot No.</b>       | P30996                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Storage Buffer</b>    | Tris-based buffer,50% glycerol                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Alias</b>             | Bontoxilysin-F                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Product Type</b>      | Recombinant Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>           | Clostridium botulinum                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Purity</b>            | Greater than 90% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Sequence</b>          | MPVAINSFNYNDPVNDDTILYMQIPYEEKSKKYYKA FEIMRNVWIIPERN TIGTN<br>PSDFDPPASLKN GSSAYYDPNYLT TDAEKDRYLKTTIKLFKRINSNPAGKVLLQ<br>EISYAKPYLGNDHTPID EFSPVTRTTSVNIKLSTNVESSMLLNLLVLGAGPDIFE<br>SCCYPVRKLIDPDVVYDPSNYGFGSINIVTF SPEYEYTFNDISGGHNSSTESFIA<br>DPAISLAHELIALHGLYGARGVTYEETIEVKQAPLMIAEKPIRLEEFLTFGGQDL<br>NIITSAMKEKIYNNLLANYEKIATRLSEVNSAPPEYDINEYKDYFQWKYGLDKNA<br>DGSYTVNENKFNEIYKKLYSFTESDLANKFKVKCRNTYFIKYEFLKVPNLLDDDI<br>YTVSEGFNIGNLAVNNRGQSIKLNPKIIDSIPDKGLVEKIVKFCKSVIPRK |
| <b>Research Area</b>     | Others                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>            | Yeast                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Gene Names</b>        | botF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Protein Names</b>     | Recommended name: Botulinum neurotoxin type F Short name= BoNT/F EC= 3.4.24.69 Alternative name(s): Bontoxilysin-F Cleaved into the following 2 chains: 1. Botulinum neurotoxin F light chain 2. Botulinum neurotoxin F heavy cha                                                                                                                                                                                                                                                     |
| <b>Expression Region</b> | 1-436aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Notes</b>             | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Tag Info</b>          | N-terminal 6xHis-tagged                                                                                                                                                                                                                                                                                                                                                                                                                                                               |



**Mol. Weight** 51.6kDa

**Protein Description** Partial

**Image**



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.