

Recombinant Clostridium botulinum Penicillin-binding protein 1A(pbpA),partial

Catalog No: #AP77110

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Package Size: #AP77110-1 20ug #AP77110-2 100ug #AP77110-3 1mg

Description

Product Name	Recombinant Clostridium botulinum Penicillin-binding protein 1A(pbpA),partial
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:663-830aaSequence Info:Partial
Other Names	Peptidoglycan TGase DD-transpeptidase
Accession No.	A5I6G4
Uniprot	A5I6G4
GeneID	5185759;5401037;
Calculated MW	35.2 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	VDRISGKLPTQLSYRDPRGSTVYNEFFINGTIPTHEYDDIHVEAQINKLTGKLASKFTPSFLVESRVFLRRDYSPG VELLDQQWLLPYSIDEGGSLPTEEKNSNTRDKNKNKKNKKNKDNPSQDKPNNNNNDNNSNNNNNNNDN NNNTKPPENDSNQNHEDNKNKQ
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

Cell wall formation. Synthesis of cross-linked peptidoglycan from the lipid intermediates. The enzyme has a penicillin-insensitive transglycosylase N-terminal domain (formation of linear glycan strands) and a penicillin-sensitive transpeptidase C-terminal domain (cross-linking of the peptide subunits).

References

"Analysis of the neurotoxin complex genes in Clostridium botulinum A1-A4 and B1 strains: BoNT,A3, ,Ba4 and ,B1 clusters are located within plasmids."

Smith T.J., Hill K.K., Foley B.T., Detter J.C., Munk A.C., Bruce D.C., Doggett N.A., Smith L.A., Marks J.D., Xie G., Brettin T.S.
PLoS ONE 2:E1271-E1271(2007)Research Topic:Cell Biology

Note: This product is for in vitro research use only