

## PBP1a Protein, Clostridium botulinum, Recombinant (His & SUMO)

### General Information

Synonyms:	Penicillin-binding protein 1A;PBP1a;pbpA
Protein Construction:	663-830 aa
Species:	Clostridium botulinum
Expression Host:	E. coli
Accession:	A5I6G4
Molecular Weight:	35.2 kDa (predicted)
AA Sequence:	VDRISGKLPQLSYRDPRGSTVYNEFFINGTIPTEYDDIHVEAQINKLTGKLASKFTSPFLVESRVFLRRDYSPGV ELLDQQWLLPYSIDEGGSLPPTTEEKNNNSNTRDKNKDKNKKNKDKNPSQDKPNNNNNDNNSNNNNNNN DNNNTKPPENDSNQNHEDNKKNKQ

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

### Preparation and Storage

**Reconstitution:**  
A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

**Stability & Storage:**

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

**Shipping:**

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein 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).

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481