

## PBP 3 Protein, Bacillus subtilis, Recombinant (His)

### General Information

Synonyms:	PBP 3;PSPB20;Penicillin-binding protein 3;ycsM;yzsA;Penicillin-binding protein C;pbpC
Protein Construction:	21-240 aa
Species:	Bacillus subtilis
Expression Host:	E. coli
Accession:	P42971
Molecular Weight:	29.2 kDa (predicted)
AA Sequence:	CSKTDSPEDRMEAFVKQWNDQQFDDMYQSLTKDVKKEISKKDFVNRYKAIYEQAGVKNLKVVTAGEVDKDDQDNKTMKHIPYKVSMTNAGKVSFKNTAVLKLEKTDDEESWNIDWDPSFIFKQLADDDKTVQIMSIEPKRGQIYDKNGKGLAVNTDVPEIGIVPGELGDKKEKVIKELAKKLDLTEDDIKKKLDQGWVKDDSFVPLKKVKPDQEKLVSEAT

### 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

Penicillin-binding proteins (PBPs) function in the late steps of murein biosynthesis. Probably required for both cortical and vegetative peptidoglycan synthesis. Although not usually required for cell division, in the absence of PBP 2B (pbpB) it becomes essential. Confers resistance to oxacillin and cephalixin.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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