

## YuaB Protein, Bacillus subtilis, Recombinant (His & SUMO)

### General Information

Synonyms:	Biofilm-surface layer protein A;yuaB;bslA;ORF-1
Protein Construction:	1-181 aa
Species:	Bacillus subtilis
Expression Host:	E. coli
Accession:	P71014
Molecular Weight:	35.3 kDa (predicted)
AA Sequence:	MKRKLLSSLAISLSLGLLVSAPTASFAAESTSTKAHTESTMRTQSTASLFATITGASKTEWSFSDIELTYRPNTL LSLGVMEFTLPSGFTANTKDTLNGNALRTTQILNNGKTVRVPALDLLGAGEFKLKLNNKTLPAAGTYTFRAE NKLSLIGNKFYAEASIDVAKRSTPPTQPCGCN

### QC Testing

Biological Activity:	Measured by its binding ability in a functional ELISA. Immobilized yuaB at 5 µg/mL can bind human HP_0175 with a linear range of 31.25-600.00 ng/mL.
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

Involved in biofilm formation. Self-polymerizes and forms a layer on the surface of biofilms that confers hydrophobicity to the biofilm. The layer is stable and capable of resistance to high mechanical force compression. Required for complex colony architecture. May function synergistically with exopolysaccharides and TasA amyloid fibers to facilitate the assembly of the biofilm matrix.

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

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