

## StxB Protein, Enterobacteria phage H19B, Recombinant (His)

### General Information

Synonyms:	stxB;SLT-1b;Verocytotoxin 1 subunit B (Verotoxin 1 subunit B);SLT-1b;Shiga-like toxin 1 subunit B;sltB;SLT-1 B subunit
Protein Construction:	21-89 aa
Species:	Enterobacteria phage H19B
Expression Host:	E. coli
Accession:	P69179
Molecular Weight:	11.7 kDa (predicted)
AA Sequence:	TPDCVTGKVEYTKYNDDDTFTVKVGDKELFTNRWNLQSLLSAQITGMTVTIKTNACHNGGGFSEVIFR

### 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:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/ $\mu$ g of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100  $\mu$ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at  $-80^{\circ}\text{C}$ . For reconstituted protein solutions, the solution can be stored at  $-20^{\circ}\text{C}$  to  $-80^{\circ}\text{C}$  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

The B subunit is responsible for the binding of the holotoxin to specific receptors on the target cell surface, such as globotriaosylceramide (Gb3) in human intestinal microvilli.

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