

## Tb2-II Protein, Tityus bahiensis, Recombinant (His & Myc)

### General Information

Synonyms:	P-Mice-Ins-beta* NaTx5.4;Toxin Tb2-II
Protein Construction:	1-62 aa
Species:	Tityus bahiensis
Expression Host:	Baculovirus Insect Cells
Accession:	P60276
Molecular Weight:	10.8 kDa (predicted)
AA Sequence:	KEGYAMDHEGCKFSCFIRPSGFCDDGYCKTHLKASSGYCAWPACYCYGVPSNIKWVDYATNKC

### 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/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

Beta toxins bind voltage-independently at site-4 of sodium channels (Nav) and shift the voltage of activation toward more negative potentials thereby affecting sodium channel activation and promoting spontaneous and repetitive firing. This toxin is active against both mammals and insects.

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