

## M-myrmeeciotoxin-Mp2b Protein, Myrmecia pilosula, Recombinant (GST &amp; His)

## General Information

Synonyms:	M-myrmeeciotoxin-Mp2b;Pilosin-3 subunit b (Pilosulin-3b);DELTA-myrtoxin-Mp1a B chain (Mp1a B chain);M-MIITX-Mp2b
Protein Construction:	1-23 aa
Species:	Myrmecia pilosula
Expression Host:	Baculovirus Insect Cells
Accession:	P0C023
Molecular Weight:	30.8 kDa (predicted)
AA Sequence:	LIGLVSKGTCVLVKTVCCKVLKQ

## 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:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

## Preparation and Storage

## Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

## Stability &amp; 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

Heterodimer protein that may serve both defensive (pain-inducing) and predatory (insecticidal) roles. Has membrane-disrupting activity and shows induction of non-specific calcium influx into cells,. Shows broad-spectrum activity against a diverse range of bacteria, and cell lines, as well as hemolytic activity (EC(50)=2.18 μM).

## A DRUG SCREENING EXPERT

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In vivo, shows moderate insecticidal activity against *D.melanogaster* and potent anthelmintic activity against the veterinary nematode *H.contortus*. In addition, intraplantar injection into mice induces nocifensive behavior and mechanical allodynia.

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

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