

## Con-ikot-ikot Protein, Conus striatus, Recombinant (His)

### General Information

Synonyms:	CII;Con-ikot-ikot
Protein Construction:	38-123 aa
Species:	Conus striatus
Expression Host:	E. coli
Accession:	P0CB20
Molecular Weight:	13.4 kDa (predicted)
AA Sequence:	SGPADCCRMKECCTDRVNECLQRYSGREDKFVSFCYQEATVTCGSFNEIVGCCYGYQMCMIRVVKPNSLSGA HEACKTVSCGNPCA

### 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

Potently and selectively blocks the desensitization of ionotropic glutamate AMPA receptor (GRIA1, GRIA2, GRIA3 and GRIA4). Can also open already desensitized GRIA1 receptors. Binds to a different site than does the drug cyclothiazide. The toxin acts like a straightjacket on the ligand-binding domain (LBD) 'gating ring' of the receptor, restraining the domains via both intra- and interdimer cross-links such that agonist-induced closure of the LBD 'clamshells' is transduced into an irislike expansion of the gating ring. Application of the toxin to hippocampal slices causes a large and rapid increase in resting AMPAR-mediated current leading to neuronal death.

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