

Toxin CfTX-1 Protein, Chironex fleckeri, Recombinant (His & SUMO)

General Information

Synonyms: Toxin 1;Toxin CfTX-1

Protein Construction: 21-456 aa

Species: Chironex fleckeri

Expression Host: E. coli

Accession: A7L035

Molecular Weight: 65.1 kDa (predicted)

AA Sequence:

```
ESTISSGLNSLTKIDAKMPSPGKQLFDKVVEMQKQIDAKFSNDDERAKVMGAIGSLSTAVGKFQSGDPAKIAS
GCLDILVGISSVLKDFAKFSPIFSILSLVVGLFSGTKAEESVGSVVKKAVQEQSDQELQEALYGVKREYAVSKAFL
DGVARNETS DLSPTVEVSALAANVPIYQGVRFIAMVVQRIKYIKPKTESEIKRMLTMLELFTDLC SLRDLILLDLYQL
VATPGHSPNIASGIKEVSNLGREEYKKVFEDLLKNDDKETYLFSLYLPREKNEQSRKIFNFFDLMKVKYDDRL
KQDLTGVKIFSNVHWPNYFMCSSNDYLALICTKPYGSLKLDKLNDDGYYSIKTTQHDPKICHRYGNYILFTHKRN
DDLEKFNFVVPVKLEKREIYLLSSKESPNKFAYVQPQADGALFFVDGIPSKVGYGNQGYFTLVE
```

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

May cause profound effects on the cardiovascular system of anesthetized rats (at 25 ug/kg), since the fraction containing this toxin and CfTX-2 produces an initial increase in mean arterial pressure, followed by cardiovascular

A DRUG SCREENING EXPERT

collapse in all animals within 1 minute of injection. To note, the same fraction does not induce significant change in heart rate. Has weak hemolytic activity. Is lethal to crayfish. Causes cutaneous inflammation in humans. May act as a pore-forming toxin, disrupting normal transmembrane ion concentration gradients in susceptible cells.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481