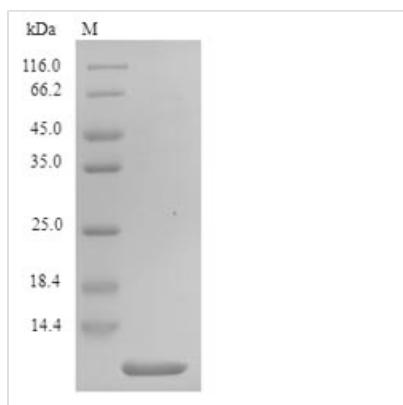




Recombinant Phoneutria nigriventer Delta-ctenitoxin-Pn1a (PNTx4)

Product Code	CSB-YP349440EUV
Relevance	This neurotoxin binds at site 3 of insect voltage-activated sodium channels (Nav) and prolongs evoked axonal action potentials by a slowing down of sodium current inactivation. The toxin inhibits glutamate uptake from rat brain synaptosomes. It is highly toxic to house fly (<i>Musca domestica</i>), toxic to cockroach, but has no effect when intracerebroventricularly injected into mice.
Abbreviation	Recombinant Phoneutria nigriventer PNTx4 protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P59368
Alias	Insecticidal neurotoxin Tx4(6-1) Short name:PNTx4(6-1)
Product Type	Recombinant Protein
Immunogen Species	Phoneutria nigriventer (Brazilian armed spider) (<i>Ctenus nigriventer</i>)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	CGDINAACKEDCDCCGYTTACDCYWSKSKCREAAIVIYTAPKKKLTC
Research Area	Others
Source	Yeast
Protein Names	Recommended name: Delta-ctenitoxin-Pn1a Short name= Delta-CNTX-Pn1a Alternative name(s): Insecticidal neurotoxin Tx4(6-1) Short name= PNTx4(6-1)
Expression Region	35-82aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	7.3kDa
Protein Length	Full Length of Mature Protein
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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