Alpha-Conotoxin Imii (ALPHA-CTx ImII) Conus Imperialis Recombinant Protein

PRODUCT OVERVIEW

Product Name	Alpha-conotoxin ImII (Alpha-CTx ImII), Recombinant Protein
Full Product Name	Recombinant Conus imperialis Alpha-conotoxin ImII
Product Gene Name	Alpha-CTx ImII recombinant protein
Product Synonym Names	Alpha-conotoxin ImII; Alpha-CTx ImII
Sequence	ACCSDR RCRWRC
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	2,096 Da
Sequence Positions	5-16aa; Cytoplasmic domain
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q8I6R5
Species	Conus imperialis (Imperial cone)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Alpha-CTx ImII recombinant protein	MBS7093284 is a recombinant protein targeting Alpha-CTx ImII. Also known as Recombinant Conus imperialis Alpha-conotoxin ImII. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Alpha-CTx ImII recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Alpha-CTx ImII. It may not necessarily be applicable to this product.

NCBI GI #	41017048
NCBI Accession #	Q8I6R5.1
UniProt Primary Accession #	Q8I6R5
NCBI Official Full Name	Alpha-conotoxin ImII
UniProt Protein Name	Alpha-conotoxin ImII
Protein Family	Alpha-conotoxin

UniProt Gene Name	Alpha-CTx ImII
UniProt Synonym Gene Names	Alpha-CTx ImII
UniProt Comments for Alpha-CTx ImII	Alpha-conotoxins act on postsynaptic membranes, they bind to the nicotinic acetylcholine receptors (nAChR) and thus inhibit them. This toxin blocks neuronal mammalian alpha-7 (human and rat) and alpha-3/beta-2 (human) and muscle alpha-1-beta-1-delta-epsilon (human) nAChRs (PubMed:12384509, PubMed:15609996). Acts voltage-independently (PubMed:12384509). Does not competes with alpha-bungarotoxin for binding to the receptor (PubMed:12384509, PubMed:15609996). Binds to a different site than alpha-conotoxin ImI (PubMed:15609996).
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