Actinoporin or-G (DELTA-AITX-OOR1B) Oulactis Orientalis Recombinant Protein

PRODUCT OVERVIEW

Product Name	Actinoporin Or-G (DELTA-AITX-Oor1b), Recombinant Protein
Full Product Name	Recombinant Oulactis orientalis Actinoporin Or-G
Product Gene Name	DELTA-AITX-Oor1b recombinant protein
Sequence	GAIIAGAALG FNVHQTVLKA LGQVSRKIAI GVDNESGGTW TALNAYFRSG TTDVILPEFV PNQKALLYSG QKDTGPVATG AVGVLAYYMS DGNTLGVMFS VPFDYNLYSN WWDVKVYRGR RRADQAMYEG LLYGIPYGGD NGWHARKLGY GLKGRGFMKS SAQSILEIHV TKA
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	18,733 Da
Sequence Positions	1-173, Full length protein
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 Q5I2B1
Species	Oulactis orientalis (Japan anemone)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for DELTA-AITX-Oor1b recombinant protein	MBS1481437 is a recombinant protein targeting DELTA-AITX-Oor1b. Also known as Recombinant Oulactis orientalis Actinoporin Or-G. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of DELTA-AITX-Oor1b 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 DELTA-AITX-Oor1b. It may not necessarily be applicable to this product.

NCBI GI #	74776076
NCBI Accession #	Q5I2B1.1
UniProt Primary Accession #	Q5I2B1
NCBI Official Full Name	DELTA-actitoxin-Oor1b
UniProt Protein Name	DELTA-actitoxin-Oor1b
UniProt Synonym Protein Names	Actinoporin Or-G

Protein Family	Delta-actitoxin
UniProt Gene Name	DELTA-AITX-Oor1b
UniProt Synonym Gene Names	DELTA-AITX-Oor1b
UniProt Comments for DELTA-AITX-Oor1b	Pore-forming protein that forms cations-selective hydrophilic pores of around 1 nm and causes cardiac stimulation and hemolysis. Pore formation is a multi-step process that involves specific recognition of membrane sphingomyelin (but neither cholesterol nor phosphatidylcholine) using aromatic rich region and adjacent phosphocholine (POC) binding site, firm binding to the membrane (mainly driven by hydrophobic interactions) accompanied by the transfer of the N-terminal region to the lipid-water interface and finally pore formation after oligomerization of several monomers. Cytolytic effects include red blood cells hemolysis, platelet aggregation and lysis, cytotoxic and cytostatic effects on fibroblasts. Lethality in mammals has been ascribed to severe vasospasm of coronary vessels, cardiac arrhythmia, and inotropic effects ().
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