Hadrucalcin (HdCa) Hadrurus Gertschi Recombinant Protein

PRODUCT OVERVIEW

Product Name	Hadrucalcin (HdCa), Recombinant Protein
Full Product Name	Recombinant Hadrurus gertschi Hadrucalcin
Product Gene Name	HdCa recombinant protein
Product Synonym Names	Recombinant Hadrucalcin; Hadrucalcin; HdCa
Sequence	S EKDCIKHLQR CRENKDCCSK KCSRRGTNPE KRCR
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 degree C. For extended storage, store at -20 or -80 degree C.
Molecular Weight	8,593 Da
Sequence Positions	40-74aa; 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 B8QG00
Species	Hadrurus gertschi (Scorpion)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for HdCa recombinant protein	MBS1139089 is a recombinant protein targeting HdCa. Also known as Recombinant Hadrurus gertschi Hadrucalcin. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of HdCa 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 HdCa. It may not necessarily be applicable to this product.

UniProt Primary Accession #	B8QG00
UniProt Secondary Accession #	P85499
UniProt Protein Name	Hadrucalcin
Protein Family	Hadrucalcin
UniProt Gene Name	HdCa
UniProt Synonym Gene Names	HdCa
UniProt Entry Name	SCXC_HADGE

UniProt Comments for HdCa	Function: Activates both skeletal ryanodine receptors (RYR1) and cardiac ryanodine receptors (RYR2) by inducing a long-lasting subconductance state, rapidly permeating the external membrane of cardiomyocytes and inducing calcium release from intracellular stores. Acts synergistically with caffeine. Ref.1 Ref.2 Subcellular location: Secreted Ref.1. Tissue specificity: Expressed by the venom gland. Ref.1 Domain: The presence of a 'disulfide through disulfide knot' structurally defines this protein as a knottin By similarity. UniProtKB P60254 Sequence similarities: Belongs to the scorpion calcine family. Mass spectrometry: Molecular mass is 4190.5 Da from positions 40 - 74. Determined by ESI. Ref.1
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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