Calcium/Calmodulin-Dependent Protein Kinase II Inhibitor 1 (CAMK2N1) Rat Recombinant Protein

PRODUCT OVERVIEW

Product Name	Calcium/calmodulin-dependent protein kinase II inhibitor 1 (Camk2n1), Recombinant Protein
Full Product Name	Recombinant Rat Calcium/calmodulin-dependent protein kinase II inhibitor 1 (Camk2n1)
Product Gene Name	Camk2n1 recombinant protein
Product Synonym Gene Name	Camk2n1
Sequence	MSEVLPYGDE KLSPYGDGGD VGQIFSCRLQ DTNNFFGAGQ SKRPPKLGQI GRSKRVVIED DRIDDVLKTM TDKAPPGV
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	8,513 Da
Sequence Positions	1-78, 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 Q9JI15
Species	Rat
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Camk2n1 recombinant protein	MBS1332301 is a recombinant protein targeting Camk2n1. Also known as Recombinant Rat Calcium/calmodulin-dependent protein kinase II inhibitor 1 (Camk2n1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Camk2n1 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 Camk2n1. It may not necessarily be applicable to this product.

NCBI GI #	27545440
NCBI GeneID	287005
NCBI Accession #	NP_775459.1
UniProt Primary Accession #	Q9JI15
UniProt Related Accession #	Q9JI15

GenBank Nucleotide #	NM_173337.1
NCBI Official Full Name	calcium/calmodulin-dependent protein kinase II inhibitor 1
NCBI Official Synonym Full Names	calcium/calmodulin-dependent protein kinase II inhibitor 1
NCBI Official Symbol	Camk2n1
UniProt Protein Name	Calcium/calmodulin-dependent protein kinase II inhibitor 1
UniProt Synonym Protein Names	calcium/calmodulin-dependent protein kinase II inhibitor alpha; CaM-KIINalpha; CaMKIINalpha
Protein Family	Calcium/calmodulin-dependent protein kinase II inhibitor
UniProt Gene Name	Camk2n1
UniProt Synonym Gene Names	CaM-KIINalpha; CaMKIINalpha
NCBI Protein Information	calcium/calmodulin-dependent protein kinase II inhibitor 1
NCBI Summary for Camk2n1	Ca2+/calmodulin-dependent-kinase II inhibitor protein [RGD, Feb 2006]
UniProt Comments for Camk2n1	Potent and specific inhibitor of CaM-kinase II (CAMK2).
Research Articles on Camk2n1	**1.** we employed optogenetic technique to selectively activate the excitatory neurons expressing CaMKIIalpha in the VTA region and induced a higher locomotor activity for free behaving rats
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