Camp-Dependent Protein Kinase Type II-Alpha Regulatory Subunit (PRKAR2A) Pig Recombinant Protein

PRODUCT OVERVIEW

Product Name	cAMP-dependent protein kinase type II-alpha regulatory subunit (PRKAR2A), Recombinant Protein
Full Product Name	Recombinant Pig cAMP-dependent protein kinase type II-alpha regulatory subunit (PRKAR2A)
Product Gene Name	PRKAR2A recombinant protein
Sequence	SGSQDLEPSS GLVTDAIADS ESEDDEDLDV PIPSRFDRRV SVCAETYNPD EEEEDTDPRV IHPKTDQQRC RLQEACKDIL LFKNLDQEQL SQVLDAMFER TVKVDEHVID QRDDGDNFYV IERGTYDILV TKDNQTRSVG QYDNHGSFGE LALMY
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	17,706 Da
Sequence Positions	1-155, 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 P05207
Species	Sus scrofa (Pig)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for PRKAR2A recombinant protein	cAMP is a signaling molecule important for a variety of cellular functions. cAMP exerts its effects by activating the cAMP-dependent protein kinase, which transduces the signal through phosphorylation of different target proteins. The inactive kinase holoenzyme is a tetramer composed of two regulatory and two catalytic subunits. cAMP causes the dissociation of the inactive holoenzyme into a dimer of regulatory subunits bound to four cAMP and two free monomeric catalytic subunits. Four different regulatory subunits and three catalytic subunits have been identified in humans. This protein is one of the regulatory subunits. This subunit can be phosphorylated by the activated catalytic subunit. It may interact with various A-kinase anchoring proteins and determine the subcellular localization of cAMP-dependent protein kinase. This subunit has been shown to regulate protein transport from endosomes to the Golgi apparatus and further to the endoplasmic reticulum (ER).
Other Notes	Small volumes of PRKAR2A 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.
Searchable Terms for PRKAR2A purchase	MBS949014 is a recombinant protein targeting PRKAR2A. Also known as Recombinant Pig cAMP-dependent protein kinase type II-alpha regulatory subunit (PRKAR2A). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PRKAR2A. It may not necessarily be applicable to this product.

NCBI GI #	125200
NCBI GeneID	397493
NCBI Accession #	P05207.1
UniProt Primary Accession #	P05207
UniProt Related Accession #	P05207
NCBI Official Full Name	cAMP-dependent protein kinase type II-alpha regulatory subunit
NCBI Official Symbol	PRKAR2A
UniProt Protein Name	cAMP-dependent protein kinase type II-alpha regulatory subunit
Protein Family	cAMP-dependent protein kinase
UniProt Gene Name	PRKAR2A
NCBI Protein Information	cAMP-dependent protein kinase type II-alpha regulatory subunit
UniProt Comments for PRKAR2A	Regulatory subunit of the cAMP-dependent protein kinases involved in cAMP signaling in cells. Type II regulatory chains mediate membrane association by binding to anchoring proteins, including the MAP2 kinase.
Research Articles on PRKAR2A	**1.** Analyses of the involvement of PKA regulation mechanism in meiotic incompetence of porcine growing oocytes.
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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