Inositol Hexakisphosphate and Diphosphoinositol-Pentakisphosphate Kinase 1 (PPIP5K1) Pongo Abelii Recombinant Protein

PRODUCT OVERVIEW

Product Name	Inositol hexakisphosphate and diphosphoinositol-pentakisphosphate kinase 1 (PPIP5K1), Recombinant Protein
Full Product Name	Recombinant Pongo abelii Inositol hexakisphosphate and diphosphoinositol-pentakisphosphate kinase 1 (PPIP5K1), partial
Product Gene Name	PPIP5K1 recombinant protein
Product Synonym Gene Name	PPIP5K1
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	156,514 Da
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 Q5RDF1
Species	Pongo abelii (Sumatran orangutan)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for PPIP5K1 recombinant protein	MBS1318248 is a recombinant protein targeting PPIP5K1. Also known as Recombinant Pongo abelii Inositol hexakisphosphate and diphosphoinositol-pentakisphosphate kinase 1 (PPIP5K1), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of PPIP5K1 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 PPIP5K1. It may not necessarily be applicable to this product.

NCBI GI #	75042327
NCBI Accession #	Q5RDF1.1
UniProt Primary Accession #	Q5RDF1
NCBI Official Full Name	Inositol hexakisphosphate and diphosphoinositol-pentakisphosphate kinase 1
UniProt Protein Name	Inositol hexakisphosphate and diphosphoinositol-pentakisphosphate kinase 1
UniProt Synonym Protein Names	Diphosphoinositol pentakisphosphate kinase 1; Histidine acid phosphatase domain-containing protein 2A; InsP6 and PP-IP5 kinase 1; VIP1 homolog

Protein Family	Inositol hexakisphosphate and diphosphoinositol-pentakisphosphate kinase
UniProt Gene Name	PPIP5K1
UniProt Synonym Gene Names	HISPPD2A; VIP1
UniProt Comments for PPIP5K1	Bifunctional inositol kinase that acts in concert with the IP6K kinases IP6K1, IP6K2 and IP6K3 to synthesize the diphosphate group-containing inositol pyrophosphates diphosphoinositol pentakisphosphate, PP-InsP5, and bis-diphosphoinositol tetrakisphosphate, (PP)2-InsP4. PP-InsP5 and (PP)2-InsP4, also respectively called InsP7 and InsP8, regulate a variety of cellular processes, including apoptosis, vesicle trafficking, cytoskeletal dynamics, exocytosis, insulin signaling and neutrophil activation. Phosphorylates inositol hexakisphosphate (InsP6) at positions 1 or 3 to produce PP-InsP5 which is in turn phosphorylated by IP6Ks to produce (PP)2-InsP4. Alternatively, phosphorylates at position 1 or 3 PP-InsP5, produced by IP6Ks from InsP6, to produce (PP)2-InsP4. Activated when cells are exposed to hyperosmotic stress.
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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