Inositol Polyphosphate 5-Phosphatase K (INPP5K) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Inositol polyphosphate 5-phosphatase K (INPP5K), Recombinant Protein
Full Product Name	Recombinant Human Inositol polyphosphate 5-phosphatase K (INPP5K)
Product Gene Name	INPP5K recombinant protein
Product Synonym Gene Name	INPP5K
Sequence	MSSRKLSGPK GRRLSIHVVT WNVASAAPPL DLSDLLQLNN RNLNLDIYVI GLQELNSGII SLLSDAAFND SWSSFLMDVL SPLSFIKVSH VRMQGILLLV FAKYQHLPYI QILSTKSTPT GLFGYWGNKG GVNICLKLYG YYVSIINCHL PPHISNNYQR LEHFDRILEM QNCEGRDIPN ILDHDLIIWF GDMNFRIEDF GLHFVRESIK NRCYGGLWEK DQLSIAKKHD PLLREFQEGR LLFPPTYKFD RNSNDYDTSE KKRKPAWTDR ILWRLKRQPC AGPDTPIPPA SHFSLSLRGY SSHMTYGISD HKPVSGTFDL ELKPLVSAPL IVLMPEDLWT VENDMMVSYS STSDFPSSPW DWIGLYKVGL RDVNDYVSYA WVGDSKVSCS DNLNQVYIDI SNIPTTEDEF LLCYYSNSLR SVVGISRPFQ IPPGSLREDP LGEAQPQI
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	42,784 Da
Sequence Positions	1-448, 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.
OMIM	607875
3D Structure	ModBase 3D Structure for Q9BT40
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for INPP5K recombinant protein	This gene encodes a protein with 5-phosphatase activity toward polyphosphate inositol. The protein localizes to the cytosol in regions lacking actin stress fibers. It is thought that this protein may negatively regulate the actin cytoskeleton. Alternatively spliced transcript variants encoding different isoforms have been identified.
Other Notes	Small volumes of INPP5K 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 INPP5K purchase	MBS1391370 is a recombinant protein targeting INPP5K. Also known as Recombinant Human Inositol polyphosphate 5-phosphatase K (INPP5K). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for INPP5K. It may not necessarily be applicable to this product.

NCBI GI #	208610044
NCBI GeneID	51763
NCBI Accession #	NP_001129114.1
UniProt Primary Accession #	Q9BT40
UniProt Secondary Accession #	Q15733; Q9NPJ5; Q9P2R5; B2R6I2; B2R750; D3DTH8
UniProt Related Accession #	Q9BT40
GenBank Nucleotide #	NM_001135642.1
NCBI Official Full Name	inositol polyphosphate 5-phosphatase K isoform 2
NCBI Official Synonym Full Names	inositol polyphosphate-5-phosphatase K
NCBI Official Symbol	INPP5K
NCBI Official Synonym Symbols	PPS; SKIP; MDCCAID
UniProt Protein Name	Inositol polyphosphate 5-phosphatase K
UniProt Synonym Protein Names	Skeletal muscle and kidney-enriched inositol phosphatase
Protein Family	Inositol polyphosphate 5-phosphatase
UniProt Gene Name	INPP5K
NCBI Protein Information	inositol polyphosphate 5-phosphatase K
UniProt Comments for INPP5K	Inositol 5-phosphatase which acts on inositol 1,4,5-trisphosphate, inositol 1,3,4,5-tetrakisphosphate, phosphatidylinositol 4,5-bisphosphate and phosphatidylinositol 3,4,5-trisphosphate. Has 6-fold higher affinity for phosphatidylinositol 4,5-bisphosphate than for inositol 1,4,5-trisphosphate (PubMed:10753883). Negatively regulates assembly of the actin cytoskeleton. Controls insulin-dependent glucose uptake among inositol 3,4,5-trisphosphate phosphatases; therefore, is the specific regulator for insulin signaling in skeletal muscle ().
Research Articles on INPP5K	**1.** Mutations in INPP5K cause a congenital muscular dystrophy syndrome with short stature, cataracts, and intellectual disability.
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