Homeodomain-Interacting Protein Kinase 3 (HIPK3) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Homeodomain-interacting protein kinase 3 (Hipk3), Recombinant Protein
Full Product Name	Recombinant Mouse Homeodomain-interacting protein kinase 3 (Hipk3) , partial
Product Gene Name	Hipk3 recombinant protein
Product Synonym Gene Name	Hipk3
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	130,081 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 Q9ERH7
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Hipk3 recombinant protein	MBS1331252 is a recombinant protein targeting Hipk3. Also known as Recombinant Mouse Homeodomain-interacting protein kinase 3 (Hipk3) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Hipk3 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 Hipk3. It may not necessarily be applicable to this product.

NCBI GI #	224922824
NCBI GeneID	15259
NCBI Accession #	NP_034564.2
UniProt Primary Accession #	Q9ERH7
UniProt Secondary Accession #	O88906; Q9QZR2; A2AQH2
UniProt Related Accession #	Q9ERH7
GenBank Nucleotide #	NM_010434.2
NCBI Official Full Name	homeodomain-interacting protein kinase 3 isoform 1
NCBI Official Synonym Full Names	homeodomain interacting protein kinase 3

NCBI Official Symbol	Hipk3
NCBI Official Synonym Symbols	PKY; DYRK6; FIST3; mir-1902
UniProt Protein Name	Homeodomain-interacting protein kinase 3
UniProt Synonym Protein Names	Androgen receptor-interacting nuclear protein kinase; ANPK; Fas-interacting serine/threonine-protein kinase; FIST; Nuclear body-associated kinase 3; Nbak3
Protein Family	Homeodomain-interacting protein kinase
UniProt Gene Name	Hipk3
UniProt Synonym Gene Names	Fist3; ANPK; FIST; Nbak3
NCBI Protein Information	homeodomain-interacting protein kinase 3
UniProt Comments for Hipk3	Serine/threonine-protein kinase involved in transcription regulation, apoptosis and steroidogenic gene expression. Phosphorylates JUN and RUNX2. Seems to negatively regulate apoptosis by promoting FADD phosphorylation. Enhances androgen receptor-mediated transcription. May act as a transcriptional corepressor for NK homeodomain transcription factors. The phosphorylation of NR5A1 activates SF1 leading to increased steroidogenic gene expression upon cAMP signaling pathway stimulation. In osteoblasts, supports transcription activation: phosphorylates RUNX2 that synergizes with SPEN/MINT to enhance FGFR2-mediated activation of the osteocalcin FGF-responsive element (OCFRE).
Research Articles on Hipk3	**1.** Depletion of HIPK3 impairs insulin secretion and glucose tolerance. Decreased levels of HIPK3 may play a substantial role in the pathogenesis of type 2 diabetes.
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