Gephyrin (GPHN) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Gephyrin (GPHN), Recombinant Protein
Full Product Name	Recombinant Human Gephyrin (GPHN)
Product Gene Name	GPHN recombinant protein
Product Synonym Gene Name	GPHN
Sequence	MATEGMILTN HDHQIRVGVL TVSDSCFRNL AEDRSGINLK DLVQDPSLLG GTISAYKIVP DEIEEIKETL IDWCDEKELN LILTTGGTGF APRDVTPEAT KEVIEREAPG MALAMLMGSL NVTPLGMLSR PVCGIRGKTL IINLPGSKKG SQECFQFILP ALPHAIDLLR DAIVKVKEVH DELEDLPSPP PPLSPPPTTS PHKQTEDKGV QCEEEEEEKK DSGVASTEDS SSSHITAAAI AAKIPDSIIS RGVQVLPRDT ASLSTTPSES PRAQATSRLS TASCPTPKVQ SRCSSKENIL RASHSAVDIT KVARRHRMSP FPLTSMDKAF ITVLEMTPVL GTEIINYRDG MGRVLAQDVY AKDNLPPFPA SVKDGYAVRA ADGPGDRFII GESQAGEQPT QTVMPGQVMR VTTGAPIPCG ADAVVQVEDT ELIRESDDGT EELEVRILVQ ARPGQDIRPI GHDIKRGECV LAKGTHMGPS EIGLLATVGV TEVEVNKFPV VAVMSTGNEL LNPEDDLLPG KIRDSNRSTL LATIQEHGYP TINLGIVGDN PDDLLNALNE GISRADVIIT SGGVSMGEKD YLKQVLDIDL HAQIHFGRVF MKPGLPTTFA TLDIDGVRKI IFALPGNPVS AVVTCNLFVV PALRKMQGIL DPRPTIIKAR LSCDVKLDPR PEYHRCILTW HHQEPLPWAQ STGNQMSSRL MSMRSANGLL MLPPKTEQYV ELHKGEVVDV MVIGRL
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	83,448 Da
Sequence Positions	1-736, 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	603930
3D Structure	ModBase 3D Structure for Q9NQX3
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for GPHN recombinant protein	This gene encodes a neuronal assembly protein that anchors inhibitory neurotransmitter receptors to the postsynaptic cytoskeleton via high affinity binding to a receptor subunit domain and tubulin dimers. In nonneuronal tissues, the encoded protein is also required for molybdenum cofactor biosynthesis. Mutations in this gene may be associated with the neurological condition hyperplexia and also lead to molybdenum cofactor deficiency. Numerous alternatively spliced transcript variants encoding different isoforms have been described; however, the full-length nature of all transcript variants is not currently known.
Other Notes	Small volumes of GPHN 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 GPHN purchase	MBS1336190 is a recombinant protein targeting GPHN. Also known as Recombinant Human Gephyrin (GPHN). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

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

NCBI GI #	66932975
NCBI GeneID	10243
NCBI Accession #	NP_001019389.1
UniProt Primary Accession #	Q9NQX3
UniProt Secondary Accession #	Q96KU4; Q9H4E9; Q9P2G2
UniProt Related Accession #	Q9NQX3
GenBank Nucleotide #	NM_001024218.1
NCBI Official Full Name	gephyrin isoform 2
NCBI Official Synonym Full Names	gephyrin
NCBI Official Symbol	GPHN
NCBI Official Synonym Symbols	GPH; GEPH; HKPX1; GPHRYN; MOCODC
UniProt Protein Name	Gephyrin
UniProt Synonym Protein Names	Domain E
Protein Family	Gephyrin
UniProt Gene Name	GPHN
UniProt Synonym Gene Names	MPT Mo-transferase
NCBI Protein Information	gephyrin
UniProt Comments for GPHN	Microtubule-associated protein involved in membrane protein-cytoskeleton interactions. It is thought to anchor the inhibitory glycine receptor (GLYR) to subsynaptic microtubules. Catalyzes two steps in the biosynthesis of the molybdenum cofactor. In the first step, molybdopterin is adenylated. Subsequently, molybdate is inserted into adenylated molybdopterin and AMP is released.
Research Articles on GPHN	**1.** these data reveal that IQSEC3 acts together with gephyrin to regulate inhibitory synapse development.
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