



Recombinant Human Gephyrin (GPHN)

Product Code	CSB-MP009716HU
Abbreviation	GPHN
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q9NQX3
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	MATEGMILTN HDHQIRVGVL TVSDSCFRNL AEDRSGINLK DLVQDPSLLG GTISAYKIVP DEIEEIKETL IDWCDEKELN LILTTGGTGF APRDVTPEAT KEVIEREAPG MALAMLMGSL NVTPLGMLSR PVCGIRGKTL IINLPGSKKG SQECFQFILP ALPHAIIDLLR DAIKVKKEVH DELEDLPSP PPLSPPTTS PHKQTEDKGV QCEEEEEEEK DSGVASTEDS SSSHITAAAI AAKIPDSIIS RGVQVLPRDT ASLSTTPSES PRAQATSRLS TASCPTPKVQ SRCSSKENIL RASHSAVDIT KVARRHRMSP FPLTSMDFKAF ITVLEMTPVL GTEIINYRDG MGRVLAQDVY AKDNLPPFPA SVKDGAVRA ADGPGDRFII GESQAGEQPT QTVMPGQVMR VTTGAPIPCG ADAVVQVEDT ELIRESDDGT EELEVRILVQ ARPGQDIRPI GHDIKRGECV LAKGTHMGPS EIGLLATVGV TEVEVNKFPV VAVMSTGNEL LNPEDDLLPG KIRDSNRSTL LATIQEHGYP TINLGIVGDN PDDLNLALNE GISRADVIIT SGGVSMGEKD YLKQVLDIDL HAQIHFGFV MKPGLPTTFA TLDIDGVRKI IFALPGNPVS AVVTCNLFVV PALRKMGGIL DPRPTIIKAR LSCDVKLDPR PEYHRCILTW HHQEPLPWAQ STGNQMSSRL MSMRSANGLL MLPPKTEQYV ELHKGEVVDV MVIGRL
Source	Mammalian cell
Target Names	GPHN
Protein Names	Recommended name: Gephyrin Including the following 2 domains: Molybdopterin adenyltransferase Short name= MPT adenyltransferase EC= 2.7.7.75 Alternative name(s): Domain G Molybdopterin molybdenumtransferase Short
Expression Region	1-736
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	full length protein
Target Details	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.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.