

Recombinant Human GPHN Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. GPHN-2749H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GPHN MS Standard C13 and N15-labeled recombinant protein (NP_065857) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	83.4 kDa
AA Sequence	MATEGMILTNDHQIRVGVLTVSDSCFRNLAEDRSGINLKDLVQDPSLLGGTISAYKI VPDEIEEIKETLIDWCDEKELNLILTGGTGTFAPRDVTPEATKEVIEREAPGMALAMLM GSLNVTPLGMLSRPVCGIRGKTLIINLPGSKKGSQECFQFILPALPHAIDLLRDAIVKV KEVHDELEDLPSPPPPLSPPTTSPHKQTEDKGVQCEEEEEEEKKDSGVASTEDSSS SHITAAIAAKKHPFYTSPAVVMAHGEQPIPLINYSHHSTDERIPDSIISRGVQVLPR

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DTASLSTTPSESPRAQATSRLSTASCPTPKVQSRCSSKENILRASHSAVDITKVARR
 HRMSPFPLTSMDFAFITVLEMTPLVLTGTEIINYRDGMGRVLAQDVYAKDNLPPFPASV
 KDGAVRAADGPGDRFIIGESQAGEQPTQTVMPGQVMRVTTGAPIPCGADAVVQV
 EDELIRESDDGTEELEVRILVQARPGQDIRPIGHDIKRGECVLAKGTHMGPSEIGLL
 ATVGVTVEEVNKFVAVVMSTGNELNLPEDDLLPGKIRDSNRSTLLATIQEHGYPTIN
 LGIVGDNPDLLNALNEGISRADVIITSGGVSMGEKDYLKQVLDIDLHAQIHFGRVFM
 KPGLPTTFATLDIDGVRKIIFALPGNPVSAVTCNLFVVPALRKMQGILDPRPTIHKARL
 SCDVKLDPREYHRCILTWHHQEPLPWAQSTGNQMSSRLMSMRSANGLMLPPKT
 EQYVELHKGEVVDVMVIGRLTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name GPHN gephyrin [Homo sapiens (human)]

Official Symbol GPHN

Synonyms GPHN; gephyrin; KIAA1385; GPH; GEPH; GPHRYN;

Gene ID 10243

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mRNA Refseq [NM_020806](#)

Protein Refseq [NP_065857](#)

MIM [603930](#)

UniProt ID [Q9NQX3](#)

SDS-PAGE



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