

[Go to Product page](#)

Datasheet for ABIN7553996

Gephyrin Protein (GPHN) (AA 1-736) (His tag)

Overview

Quantity:	1 mg
Target:	Gephyrin (GPHN)
Protein Characteristics:	AA 1-736
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Gephyrin protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat GPHN Protein expressed in mammalien cells.
Sequence:	MATEGMILTN HDHQIRVGVL TVSDSCFRNL AEDRSGINLK DLVQDPSLLG GTISAYKIVP DEIEEIKETL IDWCDEKELN LILTTGGTGF APRDVTPEAT KEVIEREAPG MALAMLMGSL NVTPLGMLSR PVCGIRGKTL IINLPGSKKG SQECFQFILP ALPHADLLR DAIVKVKEVH DELEDLPSPP PPLSPPPTS PHKQTEDKGV QCEEEEEEEK DSGVASTEDS SSSHITAAAI AAKIPDSIIS RGVQVLPDRT ASLSTTPSES PRAQATSRLS TASCPTPKVQ SRCSSKENIL RASHSAVDIT KVARRHRMSP FPLTSMDFKAF ITVLEMPVL GTEIINYRDG MGRVLAQDVY AKDNLPPFPA SVKDGAVRA ADGPGDRFII GESQAGEQPT QTMVPGQVMR VTTGAPIPCG ADAVVQVEDT ELIRESDDGT EELEVRILVQ ARPGQDIRPI GHDIKRGECV LAKGTHMGPS EIGLLATVGV TEVEVNKFPV VAVMSTGNEL LNPEDDLLPG KIRDSNRSTL LATIQEHGYP TINLGIVGDN PDDLLNALNE GISRADVIIT SGGVSMGEKD YLKQVLDIDL HAQIHFRVVF MKPGLPTTFA TLDIDGVRKI IFALPGNPVS AVVTCNLFVV PALRKMQGIL DPRPTTIKAR

Product Details

LSCDVKLDPR PEYHRCILTW HHQEPLPWAQ STGNQMSSRL MSMRSANGLL MLPPKTEQYV
ELHKGEVVDV MVIGRL **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

Characteristics:

Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

Grade:

custom-made

Target Details

Target:

Gephyrin (GPHN)

Alternative Name:

GPHN ([GPHN Products](#))

Background:

Gephyrin [Includes: Molybdopterin adenylyltransferase (MPT adenylyltransferase) (EC 2.7.7.75) (Domain G), Molybdopterin molybdenumtransferase (MPT Mo-transferase) (EC 2.10.1.1) (Domain E)],FUNCTION: Microtubule-associated protein involved in membrane protein-cytoskeleton interactions. It is thought to anchor the inhibitory glycine receptor (GLYR) to subsynaptic microtubules (By similarity). Acts as a major instructive molecule at inhibitory synapses, where it also clusters GABA type A receptors (PubMed:25025157, PubMed:26613940). {ECO:0000250|UniProtKB:Q03555, ECO:0000269|PubMed:25025157, ECO:0000269|PubMed:26613940}., FUNCTION: Has also a catalytic activity and catalyzes two steps in the biosynthesis of the molybdenum cofactor. In the first step, molybdopterin is

Target Details

adenylated. Subsequently, molybdate is inserted into adenylated molybdopterin and AMP is released. {ECO:0000269|PubMed:26613940}.

Molecular Weight: 79.7 kDa

UniProt: [Q9NQX3](#)

Pathways: [Synaptic Membrane, Skeletal Muscle Fiber Development](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months