

Datasheet for ABIN7564435

## Gephyrin Protein (GPHN) (AA 1-769) (His tag)



[Go to Product page](#)

### Overview

Quantity:	1 mg
Target:	Gephyrin (GPHN)
Protein Characteristics:	AA 1-769
Origin:	Mouse
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:	<p>MATEGMILTN HDHQIRVGVL TVSDSCFRNL AEDRSGINLK DLVQDPSLLG GTISAYKIVP  DEIEEIKETL IDWCDEKELN LILTTGGTGF APRDVTPEAT KEVIEREAPG MALAMLMGSL  NVTPLGMLSR PVCGIRGKTL IINLPGSKKG SQECFQFILP ALPHADLLR DAIVKVKEVH  DELEDLPSPPP PPLSPPTTS PHKQTEDKGV QCEEEEEEEK DSGVASTEDS SSSHITAAAL  AAKIPDSIIS RGVQVLPRDT ASLSTTPSES PRAQATSRLS TASCPTPKQI RRPDESKGVA  SRVGS�KARL PSCSSTYSVS EVQSRCSSKE NILRASHSAV DITKVARRHR MSPFPLTSMD  KAFITVLEMT PVLGTEIINY RDGMGRVLAQ DVYAKDNLPP FPASVKDGYA VRAADGPGDR  FIIGESQAGE QPTQTVMPGQ VMRVTTGAPI PCGADAVVQV EDELIRES DGT EEELEVRI  LVQARPGQDI RPIGHDIKRG ECVLAKGTHM GPSEIGLLAT VGVTEVEVNK FPVVAVMSTG  NELLNPEDDL LPGKIRDSNR STLLATIQEH GYPTINLGIV GDNPDLLNA LNEGISRADV  IITSGGVSMG EKDYLKQVLD IDLHAQIHFG RVFMKPGLPT TFATLDIDGV RKIIFALPGN</p>

## Product Details

PVSAVVTCLN FVVPALRKMV GILDPRTII KARLSCDVKL DPRPEYHRCI LTWHHQEPLP  
WAQSTGNQMS SRLMSMRSAN GLLMLPPKTE QYVELHKGEV VDMVMIGRL **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:	<p>Key Benefits:</p> <ul style="list-style-type: none"><li>• Made to order protein - from design to production - by highly experienced protein experts.</li><li>• Protein expressed in mammalian cells and purified in one-step affinity chromatography</li><li>• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.</li><li>• State-of-the-art algorithm used for plasmid design (Gene synthesis).</li></ul> <p>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.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>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.</p>
------------------	---

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

Grade:	custom-made
--------	-------------

## Target Details

Target:	Gephyrin (GPHN)
Alternative Name:	Gphn ( <a href="#">GPHN Products</a> )
Background:	<p>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).</p> <p>{ECO:0000250 UniProtKB:Q03555, ECO:0000269 PubMed:25025157}., FUNCTION: Has also a catalytic activity and catalyzes two steps in the biosynthesis of the molybdenum cofactor. In</p>

## Target Details

	the first step, molybdopterin is adenylated. Subsequently, molybdate is inserted into adenylated molybdopterin and AMP is released. {ECO:0000250 UniProtKB:Q03555}.
Molecular Weight:	83.3 kDa
UniProt:	<a href="#">Q8BUV3</a>
Pathways:	<a href="#">Synaptic Membrane, Skeletal Muscle Fiber Development</a>

## 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