

Datasheet for ABIN7564451
GEMIN5 Protein (AA 1-1502) (His tag)



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Overview

Quantity:	1 mg
Target:	GEMIN5
Protein Characteristics:	AA 1-1502
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GEMIN5 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Gemin5 Protein expressed in mammalien cells.
Sequence:	MKPEPRTLPP SPNWYCSRCS DAAPGGIFGF AARTSVFLVR VGPGAGASPG APPFRVVGEL VGHTERVSGF TFSHHPGQYN LCATSSDDGT VKVWDVETKT VVTEHTLHQH TISALHWSPT VKDLIVSGDE KGVVFCYWLN RNDSQHLFTE PRTIFCLTCS PHHENLVAIG YKDGIVIID ISKKGEVIHR LRGHDDEIHS IAWCPLSGED CLSISQEENS EEPDIPNGKL IAETPITKGC YLATGSKDQT IRIWCSRGR GVMVLKLPFL KRRSGGVDPT VKERLWLT LH WPKNQPTQLV SSCFGGELLL WDLTQSWRRK YTLFSTSAEG HNHSRIVFNL CSLKTEDGKQ LLLSTSMDRD VKCWDMATLE CCWTLPSLGG FAYSLAFSPV DVGSLAIGVG DGMIRVWNTL SIKNNYDVKN FWQGVKSKVT ALCWHPNKEG CLAFGTDDGK VGLYDTCSNK PPQISSTYHK KTVYRLAWGP PVPPMSLGGE GDRPSLTLYS CGGEGVVLQH NPWKLSGEAF DINKLVRDTN SIRYKLPVHT EISWKGDGKV LALGNEDGSI EIFQVPNLRL LCTIQQHHKL VNAIVWHHEH GSRPELSCLL ASGSNNAVIY VHNLKAVLES NPESPITITE PYRTLSGHTA KITSLAWSPH HDGRLVSACY

DGTAQVWDAL REEPLFNFRG HRGRLLCVAW SPVDPECIYS GADDFCVYRW LTSMQDHSRP
PQGKKCIELE KKRLSQFKPK LKKKKKPTLR LPVKQDSSVG NEDESVKENS GPAENGLSDQ
DGEEEAQEPE LPPSPVVCVE PVSCTDICSG FEKSKVTVSS KATSLKKEPA KEKPEALLKK
RKARSMLPLS TSLDHRSEKE LHRDCLVLAT ATHAKAELNE DVSADLEERF HLGLFTDRAT
LYRMMETEGK GHLESGHPEL FHQLMLWKGD LKGVLQAAAE RGELTDSLVA VAPVAGYSVW
LWAVEAFAKQ LCFQDQYVKA ASYLLSIHKV YEAVELLKSN HLYREAIAVA KARLRPEDPV
LKELYLSWGS ILERDGHYAI AAKCYLGATS AYDAAKVLAR KGDAASLRTA AELAAIAGEH
ELAASLALRC AQELLLMKNW VGAQEALGLH ESLQGQRLVF CLELLLCRHL EEKQPLEVRG
PSSYHQWAT GSEGTLVQRV TGVWRSAFSV DTPEQCQAAL QKLQDVKYPS ATSNTPFQRQ
LLHVCHDLTL AMLSQQAQAAW EEAVPALLQA VVRSYTSNGF TLMQEIYSAF LPGGCDHLRD
KLGDLSPAMA AYKSLEAFCI YGQLYEVWWS LCGPGPESSV WVLSAESTVS DKQSKPEDSA
SAEDMEQPPG PGPRLSAESE RLLSACKELF SERHASLQTS QRTVAEVQET LAEMIRQHQK
SQLCKATTNG PSRDEPSRDE PSQEAERAPS QPPSPTEERN APVSLPELTR RLTEANERIA
EFPEVKAWP FPDVLECCLV LLHIGSQCPD AVDPEMQQQA QELLHKYGHT RAYRRHCQSR HT

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: GEMIN5

Alternative Name: Gemin5 ([GEMIN5 Products](#))

Background: Gem-associated protein 5 (Gemin5),FUNCTION: The SMN complex catalyzes the assembly of small nuclear ribonucleoproteins (snRNPs), the building blocks of the spliceosome, and thereby plays an important role in the splicing of cellular pre-mRNAs. Most spliceosomal snRNPs contain a common set of Sm proteins SNRPB, SNRPD1, SNRPD2, SNRPD3, SNRPE, SNRPF and SNRPG that assemble in a heptameric protein ring on the Sm site of the small nuclear RNA to form the core snRNP (Sm core). In the cytosol, the Sm proteins SNRPD1, SNRPD2, SNRPE, SNRPF and SNRPG are trapped in an inactive 6S pICln-Sm complex by the chaperone CLNS1A that controls the assembly of the core snRNP. To assemble core snRNPs, the SMN complex accepts the trapped 5Sm proteins from CLNS1A forming an intermediate. Binding of snRNA inside 5Sm ultimately triggers eviction of the SMN complex, thereby allowing binding of SNRPD3 and SNRPB to complete assembly of the core snRNP. Within the SMN complex, GEMIN5 recognizes and delivers the small nuclear RNAs (snRNAs) to the SMN complex. Binds to the 7-methylguanosine cap of RNA molecules (By similarity). Binds to the 3'-UTR of SMN1 mRNA and regulates its translation, does not affect mRNA stability (PubMed:25911097). May play a role in the regulation of protein synthesis via its interaction with ribosomes (By similarity). {ECO:0000250|UniProtKB:Q8TEQ6, ECO:0000269|PubMed:25911097}.

Molecular Weight: 166.6 kDa

UniProt: [Q8BX17](#)

Pathways: [Ribonucleoprotein Complex Subunit Organization](#)

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.

Handling

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months