Datasheet for ABIN7565112

Formin 2 Protein (FMN2) (AA 1-1578) (His tag)

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Overview

Quantity:	1 mg
Target:	Formin 2 (FMN2)
Protein Characteristics:	AA 1-1578
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Formin 2 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Fmn2 Protein expressed in mammalian cells.
Sequence:	MGNQDGKLKR SAGDASHEGG GAEDAAGPRD AEITKKASGS KKALGKHGKG GGGSGETSKK KSKSDSRASV FSNLRIRKNL TKGKGACDSR EDVLDSQALP IGELDSAHSI VTKTPDLSLS AEETGLSDTE CADPFEVIHP GASRPAEAGV GIQATAEDLE TAAGAQDGQR TSSGSDTDIY SFHSATEQED LLSDIQQAIR LQQQQQQKLL LQDSEEPAAP PTAISPQPGA FLGLDQFLLG PRSEAEKDTV QALPVRPDLP ETTKSLVPEH PPSSGSHLTS ETPGYATAPS AVTDSLSSPA FTFPEAGPGE GAAGVPVAGT GDTDEECEED AFEDAPRGSP GEEWVPEVEE ASQRLEKEPE EGMRESITSA VVSLPGSPAP SPRCFKPYPL ITPCYIKTTT RQLSSPNHSP SQSPNQSPRI KKRPDPSVSR SSRTALASAA APAKKHRLEG GLTGGLSRSA DWTEELGVRT PGAGGSVHLL GRGATADDSG GGSPVLAAKA PGAPATADGF QNVFTGRTLL EKLFSQQENG PPEEAEKFCS RIIAMGLLLP FSDCFREPCN QNAGSSSAPF DQDQLYTWAA VSQPTHSMDY SEGQFPRREP SMWPSSKLPE EEPSPKDVDT EPKSSILESP KKCSNGVQQE VFDVKSEGQA TVIQQLEQTI EDLRTKIAEL EKQYPALDLE GPRGLSGLEN GLTASADVSL DALVLHGKVA QPPRTLEAKS

	IQTSPTEEGR ILTLPPPKAP PEGLLGSPAA ASGESALLTS PSGPQTKFCS EISLIVSPRR ISVQLDAQQI QSASQLPPPP PLLGSDSQGQ PSQPSLHTES ETSHEHSVSS SFGNNCNVPP APPLPCTESS SFMPGLGMAI PPPPCLSDIT VPALPSPTAP ALQFSNLQGP EMLPAPPQPP PLPGLGVPPP PPAPPLPGMG IPPPPPLPGM GIPPPPPLPG MGISPLPPLP GMGIPPPPPL PGVGIPPPPP LPGVGIPPPP PLPGVGIPPP PPLPGVGIPP PPPLPGVGIP PPPPLPGVGI PPPPPLPGVG IPPPPPLPGV GIPPPPPLPG SGIPPPPALP GVAIPPPPPL PGMGVPPPAP PPPGAGIPPP PLLPGSGPPH SSQVGSSTLP AAPQGCGFLF PPLPTGLFGL GMNQDRVARK QLIEPCRPMK PLYWTRIQLH SKRDSSPSLI WEKIEEPSID CHEFEELFSK TAVKERKKPI SDTISKTKAK QVVKLLSNKR SQAVGILMSS LHLDMKDIQH AVVNLDNSVV DLETLQALYE NRAQSDELEK IEKHSRSSKD KENAKSLDKP EQFLYELSLI PNFSERVFCI LFQSTFSESI CSIRRKLELL QKLCETLKNG PGVMQVLGLV LAFGNYMNAG NKTRGQADGF GLDILPKLKD VKSSDNSRSL LSYIVSYYLR NFDEDAGKEQ CVFPLAEPQE LFQASQMKFE DFQKDLRKLK KDLKACEAEA GKVYQVSSAE HMQPFKENME QFISQAKIDQ ESQEAALTET HKCFLETTAY YFMKPKLGEK EVSPNVFFSV WHEFSSDFKD AWKKENKLIL QERVKEAEEV CRQKKGKSLY KVKPRHDSGI KAKISMKT **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.**
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Product Details

Grade:	custom-made

Target Details

Target:	Formin 2 (FMN2)
Alternative Name:	Fmn2 (FMN2 Products)
Background:	Formin-2,FUNCTION: Actin-binding protein that is involved in actin cytoskeleton assembly and reorganization (PubMed:18848445, PubMed:21620703). Acts as an actin nucleation factor and promotes assembly of actin filaments together with SPIRE1 and SPIRE2 (PubMed:18848445, PubMed:21620703). Involved in intracellular vesicle transport along actin fibers, providing a novel link between actin cytoskeleton dynamics and intracellular transport (PubMed:21983562). Required for asymmetric spindle positioning, asymmetric oocyte division and polar body extrusion during female germ cell meiosis (PubMed:12447394, PubMed:18848445, PubMed:19062278, PubMed:21620703). Plays a role in responses to DNA damage, cellular stress and hypoxia by protecting CDKN1A against degradation, and thereby plays a role in stress-induced cell cycle arrest (By similarity). Also acts in the nucleus: together with SPIRE1 and SPIRE2, promotes assembly of nuclear actin filaments in response to DNA damage in order to facilitate movement of chromatin and repair factors after DNA damage (By similarity). Protects cells against apoptosis by protecting CDKN1A against degradation (By similarity). {ECO:0000250|UniProtKB:Q9NZ56, ECO:0000269|PubMed:12447394, ECO:0000269|PubMed:18848445, ECO:0000269|PubMed:19062278, ECO:0000269|PubMed:21620703, ECO:0000269|PubMed:21983562}.
Molecular Weight:	167.4 kDa
UniProt:	Q9JL04
Pathways:	Regulation of Actin Filament Polymerization

Application Details

Application Notes:	We expect the protein to work for functional studies. 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

Handling

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