

Datasheet for ABIN3130784

SHROOM2 Protein (AA 1-1481) (His tag)



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1 Image

Overview

Quantity:	1 mg
Target:	SHROOM2
Protein Characteristics:	AA 1-1481
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SHROOM2 protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence: MEGAEPRARP ERLAEAEAPA TDGVRLVEVQ LSGGAPWGFT LKGGREHGEP LVITKIEEGS
KAAAVDKLLA GDEIVAINDV SLSGFRQEAI CLVKGSHKTL KLVVKRKS DP SWRPHSWHAT
KYFDVHPEPA ASLFLNTSGS PSWKSQHQS SSSHDLSGSW EHTSLQRTSD HFSSMGSIDS
LDHSSQLYPS GHLSSAKSNS SIDHLGGH SK RDSAYGSFST CSSTPDHTLP KADASSTENI
LYKVGLWEAS RPGSSRQS QS TGDPQGLQDR PSCFIPRVP G NSSKSPRPED NVEPKIATHG
RSNFGPVWYV PDKKKAPSP PLGLPLRSDS FSVAARGHEK ARGPPFSDLA SMQHFITLPH
VQPRGDHRME TTDRQWKLTH LSSGKEIGNV GYQSEGLDC RWLCSDDRAG RPSGPPGRLQ
FSDVHFLKSY HGSQHQQCS DESPRAPSSP RELLHITPGG GLQEPPEPSQ DDNPTQVRWP
GSAHQKLDDR GRSHYFPGSL RQPVGSAQV VIPRGDYWHS DTPVDLEYP LLRPVGQRTY
LQQHEETPAS HEKEGYHQLN AGIEGCCSGI QEPPRASRTV RTGLQCPSND FKLVDGESGR
ISRQRTPLMH SLTQDGTWRP GNSKDCGNDK PPLFDAQVGK PTRRSDFAT TLRNEIQMRR
AKLQKSKSTV TLAGDSEAED CAGDWRADVG AVPEGSFPST YKEHLKEAQT RVLKATSFQR

RDLDPADQ YSGPSEHRTF DHSASSSLSS FPGEPDSAPR FCETGLAKAP SSGVGVPHVL
RIGGRKRFTA EQKLKSYSEP EKINEVGLSG DHRPHPTVRT PEDTVGTFAD RWKFFEETSK
SLLQKAGHRQ VHCGLPREKA ERPQTGHHEC ESTEPWFQKR SLATSCGEIL SDRKVEKASE
KLNPPRRLGT FAEYQASWKE QKKPLEARSS GRYHSADDIL DAGLDQQQR QYIHERSRSS
PSTDHYSQEV PVEPNRQAED SGDHKEAIRC TLQAEEGCSA PSAQPQDSQH VNEDTTFPQP
ETQLSSKCQH LQTSAMETSR SPSPQFAPQK LTDKPPLLIH EDNSARIERV MDNNTTVKMW
PIKIVHSESQ PEKESRQSLA CPAELPLPS GLERDQIKTL STSEQCYSRF CVYTRQEVEA
PHRARPEPR PPSTPAPPVR DSCSSPPSLN YGKAKEKTMD DLKSEELARE IVGKDKSLAD
ILDPSVKIKT TMDLMEGIFP KDEYLLEEAQ QRRKLLPKVP LPRVTEKQK DPGMPGVVSL
ATNSTYYSTS APKAELLIKM KDLQEPEEYS AGDLHDLSV KKQELIDIS RKLQVLRER
ESLLEDIQAN NALGDEVEAI VKDVCKPNEF DKFRMFIGDL DKVVNLLLSL SGRLARVENA
LNNLDDNPSP GDRQSLLEKQ RVLTTQHQEDA KELKENLDRR ERIVFDILAT YLSEENLADY
EHFVKMKSAL IIEQRELEDK IHLGEEQLKC LFDLQRPERS K

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Shroom2 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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 will ensure that you receive a correctly folded protein.

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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm.

The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use

Product Details

the Expsy's protparam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells: <ol style="list-style-type: none">1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

Target:	SHROOM2
Alternative Name:	Shroom2 (SHROOM2 Products)
Background:	May be involved in endothelial cell morphology changes during cell spreading. In the retinal pigment epithelium, may regulate the biogenesis of melanosomes and promote their association with the apical cell surface by inducing gamma-tubulin redistribution. {ECO:0000269 PubMed:16684770, ECO:0000269 PubMed:16987870}.
Molecular Weight:	165.7 kDa Including tag.
UniProt:	A2ALU4
Pathways:	Cell-Cell Junction Organization , Asymmetric Protein Localization

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.
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

Application Details

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: 100 mM NaCl, 20 mM Hepes, 10% glycerol. pH value 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: Unlimited (if stored properly)

Images



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process