

Datasheet for ABIN3136088

SHANK2 Protein (AA 1-1476) (His tag)



[Go to Product page](#)

1 Image

Overview

Quantity:	1 mg
Target:	SHANK2
Protein Characteristics:	AA 1-1476
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SHANK2 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	<p>MKSLNNAFTK KEVPFREAPA YSNRRRRPPN TLAAPRVLLR SNSDNNLNAG APEWAVCSAA</p> <p>TSHRSLSPQL LQQTSPKPDG ATKSLGSYTP GPRSRSPSLN RLGGTAEDGK RTQPHWHVGS</p> <p>PFTPGANKDS LSTFEYPGPR RKLYSAPVGR LFVAVKPYQP QVDGEIPLHR GDRVKVLISG</p> <p>EGGFWECSAR GHIGWFPAEC VEEVQCKPRD SQAETRADRS KKLFRHYTVG SYDSFDAASD</p> <p>CIIEDKTVVL QKKDNEGFGF VLRGAKADTP IEEFTPTPAF PALQYLESVD EGGVAWQAGL</p> <p>RTGDFLIEVN NENVVKVGHR QVVNMIRQGG NHLILKVVTV TRNLDPDDTA RKKAPPPPKR</p> <p>APTTALTIRS KSMTAELEEL GLSLVDKASV RKKKDKPEEI VPASKPSRTA ENVAIESRVA</p> <p>TIKQRPTSRC FPAASDVNSV YERQGIAMT PTVPGSPKGP FLGLPRGTMR RQKSIDSRIE</p> <p>LSGITEERQ FLAPPMLKFT RSLSMPDTSE DIPPPQSV PPSPPSPPTT YNCPRSPTPR</p> <p>VYGTIKPAFN QNPVAVKVP ATRSDTVATM MREKGMFYRR ELDRFSLDSE DVYSRSPAPQ</p> <p>AAFRTKRGQM PENPYSEVGK IASKAVYVPA KPARRKGVLV KQSNVEDSPE KTCSIPIPTI</p> <p>IVKEPSTSSS GKSSQGSSME IDPQATEPGQ LRPDDSLTVS SPFAAAIAGA VRDREKRLEA</p>
-----------	--

RRNSPAFLST DLGDEDVGLG PPAPRMQASK FPEEGGFGDE DETEQPLLPT PGAAPRELEN
HFLGGGEAGA QGEAGGPLSS TSKAKGPESG PAAPLKSSSP AGPENYVHPL TGRLLDPSSP
LALALSARDR AMQESQQGHK GEAPKADLNK PLYIDTKMRP SVESGFPPVT RQNTRGPLRR
QETENKYETD LGKDRRADDK KNMLINIVDT AQQKSAGLLM VHTVDVPMAG PPLEEEEDRE
DGDTPKDHSP STVPEGVPKT EGALQISAAP EPAVAPGRTI VAAGSVEEAV ILPFRIPPPP
LASVDLDEDF LFTEPLPPPL EFANSFDIPD DRAASVPALA DLVKQKKNDT SQPPTLNSSQ
PANSTDSSKP AGISNCLPSS FLPPESFDA VTDSGIEVD SRSSSDHHLE TTSTISTVSS
ISTLSSEGGE SMDTCTVYAD GQAFVVDKPP VPPKPKMKPI VHKSALYQD TLPEEDTDGF
VIPPPAPPPP PGSAQAGVAK VIQPRTSKLW GDVPEVKSPI LSGPKANVIS ELNSILQGMN
RGKSVKPGEG LELPVGAKSA NLAPRSPEVM STVSGTRSTT VTFTVRPGTS QPITLQSRPP
DYESRTSGPR RAPSPVVSPT ELSKEILPTP PPPSATAASP SPTLSDVFSL PSQSPAGDLF
GLNPAGRSRS PPSILQQPI SNKPFTTKPV HLWTKPDVAD WLESLNLGEH KETFMDNEID
GSHLPNLQKE DLIDLGVTRV GHRMNIERAL KQLLDR

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 Shank2 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 ExPASy'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:	SHANK2
Alternative Name:	Shank2 (SHANK2 Products)
Background:	Seems to be an adapter protein in the postsynaptic density (PSD) of excitatory synapses that interconnects receptors of the postsynaptic membrane including NMDA-type and metabotropic glutamate receptors, and the actin-based cytoskeleton. May play a role in the structural and functional organization of the dendritic spine and synaptic junction (By similarity). {ECO:0000250}.
Molecular Weight:	159.9 kDa Including tag.
UniProt:	Q80Z38

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