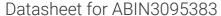
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SHANK2 Protein (AA 1-1470) (His tag)





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Overview

| Quantity: | 1 mg |
|-------------------------------|--|
| Target: | SHANK2 |
| Protein Characteristics: | AA 1-1470 |
| Origin: | Human |
| 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:

MKSLLNAFTK KEVPFREAPA YSNRRRRPPN TLAAPRVLLR SNSDNNLNAS APDWAVCSTA
TSHRSLSPQL LQQMPSKPEG AAKTIGSYVP GPRSRSPSLN RLGGAGEDGK RPQPLWHVGS
PFALGANKDS LSAFEYPGPK RKLYSAVPGR LFVAVKPYQP QVDGEIPLHR GDRVKVLSIG
EGGFWEGSAR GHIGWFPAEC VEEVQCKPRD SQAETRADRS KKLFRHYTVG SYDSFDTSSD
CIIEEKTVVL QKKDNEGFGF VLRGAKADTP IEEFTPTPAF PALQYLESVD EGGVAWQAGL
RTGDFLIEVN NENVVKVGHR QVVNMIRQGG NHLVLKVVTV TRNLDPDDTA RKKAPPPPKR
APTTALTLRS KSMTSELEEL VDKASVRKKK DKPEEIVPAS KPSRAAENMA VEPRVATIKQ
RPSSRCFPAG SDMNSVYERQ GIAVMTPTVP GSPKAPFLGI PRGTMRRQKS IDSRIFLSGI
TEEERQFLAP PMLKFTRSLS MPDTSEDIPP PPQSVPPSPP PPSPTTYNCP KSPTPRVYGT
IKPAFNQNSA AKVSPATRSD TVATMMREKG MYFRRELDRY SLDSEDLYSR NAGPQANFRN
KRGQMPENPY SEVGKIASKA VYVPAKPARR KGMLVKQSNV EDSPEKTCSI PIPTIIVKEP
STSSSGKSSQ GSSMEIDPQA PEPPSQLRPD ESLTVSSPFA AAIAGAVRDR EKRLEARRNS

PAFLSTDLGD EDVGLGPPAP RTRPSMFPEE GDFADEDSAE QLSSPMPSAT PREPENHFVG
GAEASAPGEA GRPLNSTSKA QGPESSPAVP SASSGTAGPG NYVHPLTGRL LDPSSPLALA
LSARDRAMKE SQQGPKGEAP KADLNKPLYI DTKMRPSLDA GFPTVTRQNT RGPLRRQETE
NKYETDLGRD RKGDDKKNML IDIMDTSQQK SAGLLMVHTV DATKLDNALQ EEDEKAEVEM
KPDSSPSEVP EGVSETEGAL QISAAPEPTT VPGRTIVAVG SMEEAVILPF RIPPPPLASV
DLDEDFIFTE PLPPPLEFAN SFDIPDDRAA SVPALSDLVK QKKSDTPQSP SLNSSQPTNS
ADSKKPASLS NCLPASFLPP PESFDAVADS GIEEVDSRSS SDHHLETTST ISTVSSISTL
SSEGGENVDT CTVYADGQAF MVDKPPVPPK PKMKPIIHKS NALYQDALVE EDVDSFVIPP
PAPPPPPGSA QPGMAKVLQP RTSKLWGDVT EIKSPILSGP KANVISELNS ILQQMNREKL
AKPGEGLDSP MGAKSASLAP RSPEIMSTIS GTRSTTVTFT VRPGTSQPIT LQSRPPDYES
RTSGTRRAPS PVVSPTEMNK ETLPAPLSAA TASPSPALSD VFSLPSQPPS GDLFGLNPAG
RSRSPSPSIL QQPISNKPFT TKPVHLWTKP DVADWLESLN LGEHKEAFMD NEIDGSHLPN
LQKEDLIDLG VTRVGHRMNI ERALKQLLDR

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.
- Human 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 receival 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: |
| | 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. |
| | 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. |
| Molecular Weight: | 159.8 kDa Including tag. |
| UniProt: | Q9UPX8 |
| 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 gurantee though. |
| Comment: | 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. |
| 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

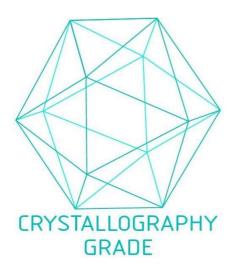


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process