

Datasheet for ABIN3095733

STK36 Protein (AA 1-1315) (His tag)



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1 Image

Overview

Quantity:	1 mg
Target:	STK36
Protein Characteristics:	AA 1-1315
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This STK36 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	<p>MEKYHVLEMI GEGSFGRVYK GRRKYSAQVV ALKFIPKLGR SEKELRNLQR EIEIMRGLRH</p> <p>PNIVHMLDSF ETDKEVVVVT DYAEGLFQI LEDDGKLPED QVQAIAAQLV SALYYLHSHR</p> <p>ILHRDMKPQN ILLAKGGGIK LCDFGFARAM STNTMVLTSI KGTPLYMSPE LVEERPYDHT</p> <p>ADLWSVGCIL YELAVGTPPF YATSIFQLVS LILKDPVRWP STISPCFKNF LQGLLTKDPR</p> <p>QRLSWPDLLY HPFIAGHVTI ITEPAGPDLG TPFTSRLPPE LQVLKDEQAH RLAPKGNQSR</p> <p>ILTQAYKRMA EEAMQKKHQH TGPALQEDK TSKVAPGTAP LPRLGATPQE SLLAGILAS</p> <p>ELKSSWAKSG TGEVPSAPRE NRTTPDCERA FPEERPEVLG QRSTDVVDLE NEEPDSNEW</p> <p>QHLLETTEPV PIQLKAPLTL LCNPDFCQRI QSQLHEAGGQ ILKGILEGAS HILPAFRVLS</p> <p>SLLSSCSDSV ALYSFCREAG LPGLLLSLLR HSQESNSLQQ QSWYGTFLQD LMAVIQAYFA</p> <p>CTFNLERSQT SDSLQVFQEA ANLFLDLLGK LLAQPDDSEQ TLRRDSLMCF TVLCEAMDGN</p> <p>SRAISKAFYS SLLTTQQVVL DGLLHGLTVP QLPVHTPQGA PQVSQPLREQ SEDIPGAISS</p> <p>ALAAICTAPV GLPDCWDAKE QVCWHLANQL TEDSSQLRPS LISGLQHPIL CLHLLKVLYS</p>
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CCLVSEGLCR LLGQEPLALE SLFMLIQGKV KVVDWEESTE VTLYFLSLLV FRLQNLPCGM
EKLGS DVATL FTHSHVSVSLV SAAACLLGQL GQQGVTFDLQ PMEWMMAATH ALSAPAEVRL
TPPGSCGFYD GLLILLQLL TEQGKASLR DMSSSEMWTW LWHRFMSVLR LPEEASAEQEG
ELSLSPSP EPDWTLISPQ GMAALLSLAM ATFTQEPQLC LSCLSQHSGI LMSILKHLLC
PSFLNQLRQA PHGSEFLPVV VLSVCQLLCF PFALDMDADL LIGVLADLRD SEVAHLLQV
CCYHLPLMQV ELPISLLTRL ALMDPTSLNQ FVNTVSASPR TIVSFLSVAL LSDQPLLTSD
LLSLLAHTAR VLSPSHLSFI QELLAGSDES YRPLRSLLGH PENSVAHTY RLLGHLLQHS
MALRGALQSQ SGLLSLLLLG LGDKDPVVR SASFAVGNA YQAGPLGPAL AAVPSMTQL
LGDPQAGIRR NVASALGNLG PEGLGELLQ CEVPQRLEM ACGDPQPNVK EAALIALRSL
QQEPGIHQVL VSLGASEKLS LLSLGNQSLP HSSPRPASAK HCRKLIHLLR PAHSM

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 STK36 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 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:

1. In a first purification step, the protein is purified from the cleared cell lysate using three

Product Details

- 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:	STK36
Alternative Name:	STK36 (STK36 Products)
Background:	<p>Serine/threonine protein kinase which plays an important role in the sonic hedgehog (Shh) pathway by regulating the activity of GLI transcription factors (PubMed:10806483). Controls the activity of the transcriptional regulators GLI1, GLI2 and GLI3 by opposing the effect of SUFU and promoting their nuclear localization (PubMed:10806483). GLI2 requires an additional function of STK36 to become transcriptionally active, but the enzyme does not need to possess an active kinase catalytic site for this to occur (PubMed:10806483). Required for postnatal development, possibly by regulating the homeostasis of cerebral spinal fluid or ciliary function (By similarity). Essential for construction of the central pair apparatus of motile cilia. {ECO:0000250 UniProtKB:Q69ZM6, ECO:0000269 PubMed:10806483}.</p>
Molecular Weight:	144.9 kDa Including tag.
UniProt:	Q9NRP7

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:	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

Application Details

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