Datasheet for ABIN3095520

SLIT1 Protein (AA 34-1534) (His tag)

1 Image

Go to Product page

Overview

Quantity:	1 mg
Target:	SLIT1
Protein Characteristics:	AA 34-1534
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLIT1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

Product Details

Sequence:	CPALCTCTGT TVDCHGTGLQ AIPKNIPRNT ERLELNGNNI TRIHKNDFAG LKQLRVLQLM ENQIGAVERG AFDDMKELER LRLNRNQLHM LPELLFQNNQ ALSRLDLSEN AIQAIPRKAF RGATDLKNLQ LDKNQISCIE EGAFRALRGL EVLTLNNNNI TTIPVSSFNH MPKLRTFRLH SNHLFCDCHL AWLSQWLRQR PTIGLFTQCS GPASLRGLNV AEVQKSEFSC SGQGEAGRVP TCTLSSGSCP AMCTCSNGIV DCRGKGLTAI PANLPETMTE IRLELNGIKS IPPGAFSPYR KLRRIDLSNN QIAEIAPDAF QGLRSLNSLV LYGNKITDLP RGVFGGLYTL QLLLLNANKI NCIRPDAFQD LQNLSLLSLY DNKIQSLAKG TFTSLRAIQT LHLAQNPFIC DCNLKWLADF LRTNPIETSG ARCASPRRLA NKRIGQIKSK KFRCSAKEQY FIPGTEDYQL NSECNSDVVC PHKCRCEANV VECSSLKLTK IPERIPQSTA ELRLNNNEIS ILEATGMFKK LTHLKKINLS NNKVSEIEDG AFEGAASVSE LHLTANQLES IRSGMFRGLD GLRTLMLRNN RISCIHNDSF TGLRNVRLLS LYDNQITTVS PGAFDTLQSL STLNLLANPF NCNCQLAWLG GWLRKRKIVT GNPRCQNPDF LRQIPLQDVA FPDFRCEEGQ EEGGCLPRPQ CPQECACLDT VVRCSNKHLR

	ALPKGIPKNV TELYLDGNQF TLVPGQLSTF KYLQLVDLSN NKISSLSNSS FTNMSQLTTL ILSYNALQCI PPLAFQGLRS LRLLSLHGND ISTLQEGIFA DVTSLSHLAI GANPLYCDCH LRWLSSWVKT GYKEPGIARC AGPQDMEGKL LLTTPAKKFE CQGPPTLAVQ AKCDLCLSSP CQNQGTCHND PLEVYRCACP SGYKGRDCEV SLDSCSSGPC ENGGTCHAQE GEDAPFTCSC PTGFEGPTCG VNTDDCVDHA CANGGVCVDG VGNYTCQCPL QYEGKACEQL VDLCSPDLNP CQHEAQCVGT PDGPRCECMP GYAGDNCSEN QDDCRDHRCQ NGAQCMDEVN SYSCLCAEGY SGQLCEIPPH LPAPKSPCEG TECQNGANCV DQGNRPVCQC LPGFGGPECE KLLSVNFVDR DTYLQFTDLQ NWPRANITLQ VSTAEDNGIL LYNGDNDHIA VELYQGHVRV SYDPGSYPSS AIYSAETIND GQFHTVELVA FDQMVNLSID GGSPMTMDNF GKHYTLNSEA PLYVGGMPVD VNSAAFRLWQ ILNGTGFHGC IRNLYINNEL QDFTKTQMKP GVVPGCEPCR KLYCLHGICQ PNATPGPMCH CEAGWVGLHC DQPADGPCHG HKCVHGQCVP LDALSYSCQC QDGYSGALCN QAGALAEPCR GLQCLHGHCQ ASGTKGAHCV CDPGFSGELC EQESECRGDP VRDFHQVQRG YAICQTTRPL SWVECRGSCP GQGCCQGLRL KRRKFTFECS DGTSFAEEVE KPTKCGCALC A **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 SLIT1 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: 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:	SLIT1
Alternative Name:	SLIT1 (SLIT1 Products)
Background:	Thought to act as molecular guidance cue in cellular migration, and function appears to be mediated by interaction with roundabout homolog receptors. During neural development involved in axonal navigation at the ventral midline of the neural tube and projection of axons to different regions (By similarity). SLIT1 and SLIT2 together seem to be essential for midline guidance in the forebrain by acting as repulsive signal preventing inappropriate midline crossing by axons projecting from the olfactory bulb. {ECO:0000250}.
Molecular Weight:	165.4 kDa Including tag.
UniProt:	O75093
Pathways:	Regulation of Cell Size

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

Application Details

	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