



[Go to Product page](#)

Datasheet for ABIN3095522  
**SLIT2 Protein (AA 31-1121) (His tag)**

### Overview

Quantity:	1 mg
Target:	SLIT2
Protein Characteristics:	AA 31-1121
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLIT2 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

### Product Details

Sequence: QCS CSGSTVD CHGLALRSVP RNIPR NTERL DLNGNNITRI TKTDFAGLRH LRVLQLMENK  
ISTIERGAFQ DLKELERLRL NRNHLQLFPE LLFLGTAKLY RLDLSENQIQ AIPRKAFRGA  
VDIKNLQLDY NQISCIEDGA FRALRDLEVL TLNNNNITRL SVASFNHMPK LRTFRLHSNN  
LYCDCHLAWL SDWLRQRPRV GLYTQCMGPS HLRGHNVAEV QKREFVCSGH QSFMAPSCSV  
LHCPAACTCS NNIVDCRGKG LTEIPTNLPE TITEIRLEQN TIKVIPPGAF SPYKKLRRID  
LSNNQISELA PDAFQGLRSL NSLVLYGNKI TELPKSLFEG LFSLQLLLLL ANKINCLRVD  
AFQDLHNLNL LSLYDNKLQT IAKGTFSPLR AIQTMHLAQN PFICDCHLKW LADYLHTNPI  
ETSGARCTSP RRLANKRIGQ IKSCKFRCSA KEQYFIPGTE DYRSKLSGDC FADLACPEKC  
RCEGTTVDCS NQKLNKIPEH IPQYTAELRL NNNEFTVLEA TGIFKKLPQL RKINFSSNNKI  
TDIEEGAFEG ASGVNEILLT SNRLENVQHK MFKGLES LKT LMLRSNRITC VGNDSFIGLS  
SVRLLSLYDN QITTVAPGAF DTLHSLSTLN LLANPFNCNC YLAWLGEWLR KKRIVTGNPR  
CQKPYFLKEI PIQDVAIQDF TCDDGND DNS CSPLSRCPT E CTCLDTV VRC SNKGLKVL PK

GIPRDVTELY LDGNQFTLVP KELSNYKHLT LIDLSNNRIS TLSNQSFNSM TQLLTLILSY  
NRLRCIPPRT FDGLKSLRLL SLHGNDISVV PEGAFNDLSA LSHLAIGANP LYCDCNMQWL  
SDWVKSEYKE PGIARCAGPG EMADKLLLT PSKKFTCQGP VDVNILAKCN PCLSNPCKND  
GTCNSDPVDF YRCTCPYGFK GQDCDVPIHA CISNPCKHGG TCHLKEGEED GFWCICADGF  
EGENCEVNVD DCEDNDCENN STCVDDGINNY TCLCPPEYTG ELCEEKLDFC AQDLNPCQHD  
SKCILTPKGF KCDCTPGYVG EHCIDIDFDDC QDNKCKNGAH CTDVAVNGYTC ICPEGYSGLF  
CEFSPPMVLP R

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

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### Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Human SLIT2 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.

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### 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

## Product Details

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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

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Target: SLIT2

Alternative Name: SLIT2 ([SLIT2 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. SLIT1 and SLIT2 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. In spinal chord development may play a role in guiding commissural axons once they reached the floor plate by modulating the response to netrin. In vitro, silences the attractive effect of NTN1 but not its growth-stimulatory effect and silencing requires the formation of a ROBO1-DCC complex. May be implicated in spinal chord midline post-crossing axon repulsion. In vitro, only commissural axons that crossed the midline responded to SLIT2. In the developing visual system appears to function as repellent for retinal ganglion axons by providing a repulsion that directs these axons along their appropriate paths prior to, and after passage through, the optic chiasm. In vitro, collapses and repels retinal ganglion cell growth cones. Seems to play a role in branching and arborization of CNS sensory axons, and in neuronal cell migration. In vitro, Slit homolog 2 protein N-product, but not Slit homolog 2 protein C-product, repels olfactory bulb (OB) but not dorsal root ganglia (DRG) axons, induces OB growth cones collapse and induces branching of DRG axons. Seems to be involved in regulating leukocyte migration. {ECO:0000269|PubMed:10102268, ECO:0000269|PubMed:10864954, ECO:0000269|PubMed:10975526, ECO:0000269|PubMed:11239147, ECO:0000269|PubMed:11309622, ECO:0000269|PubMed:11404413}.

Molecular Weight: 123.2 kDa Including tag.

UniProt: [O94813](#)

## Target Details

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Pathways: [Regulation of Actin Filament Polymerization](#), [Regulation of Cell Size](#), [Smooth Muscle Cell Migration](#)

## Application Details

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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 receive your protein of interest.

Restrictions: For Research Use only

## Handling

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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)