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Datasheet for ABIN3118107

## Semaphorin 6C Protein (AA 25-930) (rho-1D4 tag)

### Overview

Quantity:	1 mg
Target:	Semaphorin 6C (SEMA6C)
Protein Characteristics:	AA 25-930
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Semaphorin 6C protein is labelled with rho-1D4 tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

### Product Details

Sequence: AFPQDPLPLL ISDLQGTSP L SWFRGLEDDA VAAELGLDFQ RFLTLNRTLL VAARDHVFSF  
DLQAEEEGEG LVPNKYLTWR SQDVENCAVR GKLTDECYNY IRVLVPWDSQ TLLACGTNSF  
SPVCRSYGIT SLQQEGEELS GQARCPDAT QSNVAIFAEG SLYSATAADF QASDAVVYRS  
LGPQPPLRSA KYDSKWLREP HFVQALEHGD HVYFFFREVS VEDARLGRVQ FSRVARVCKR  
DMGGSPRALD RHWTSFLKLR LNCSVPGDST FYFDVLQALT GPVNLHGRSA LFGVFTTQTN  
SIPGSAVCAF YLDEIERGFE GKFKEQRSLD GAWTPVSEDR VPSRPGSCA GVGGAAALFSS  
SRDLPPDDVLT FIKAHPLLDV AVPPVTHQPL LTLTSRALLT QVAVDGMAGP HSNITVMFLG  
SNDGTVLKVL TPGGRSGGPE PILLEEIDAY SPARCSGKRT AQTARRIIGL ELDTEGHRFL  
VAFSGCIVYL PLSRCARHGA CQRSCLASQD PYCGWHSSRG CVDIRGSGGT DVDQAGNQES  
MEHGDCQDGA TGSQSGPGDS AYGVRRDLPP ASASRSVIP LLLASVAAAF ALGASVSGLL  
VSCACRRAHR RRGKDIETPG LPRPLSLRSL ARLHGGGPEP PPPSKGDGAV QTPQLYTTFL  
PPPEGVPPPE LACLPTPEST PELPVKHLRA AGDPWEWNQN RNNAKEGPGR SRGGHAAGGP

APRVLRPPPP PGCPGQAVEV TTLEELLRYL HGPPPPRKGGA EPPAPLTSRA LPPEPAPALL  
GGPSRPHEC ASPLRLDVPP EGRCASAPAR PALSAPAPRL GVGGGRRLPF SGHRAPPALL  
TRVPSGGPSR YSGGPGKHLL YLGRPEGYRG RALKRVDVEK PQLSLKPPLV GPSSRQAVPN  
GGRFNF

**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 SEMA6C 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:

Three step purification of membrane proteins expressed in baculovirus infected SF9 insect cells:

1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot.
2. The best performing detergent is used for solubilization and the proteins are purified via their rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot.
3. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatograph. Eluate fractions are analyzed by SDS-PAGE and

## Product Details

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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: Semaphorin 6C (SEMA6C)

Alternative Name: SEMA6C ([SEMA6C Products](#))

Background: Shows growth cone collapsing activity on dorsal root ganglion (DRG) neurons in vitro. May be a stop signal for the DRG neurons in their target areas, and possibly also for other neurons. May also be involved in the maintenance and remodeling of neuronal connections.  
{ECO:0000269|PubMed:12110693}.

Molecular Weight: 98.2 kDa Including tag.

UniProt: [Q9H3T2](#)

## 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.

## Handling

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: Unlimited (if stored properly)