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Datasheet for ABIN3135146

## DSCAML1 Protein (AA 19-1591) (His tag)

### 1 Image

#### Overview

Quantity:	1 mg
Target:	DSCAML1
Protein Characteristics:	AA 19-1591
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DSCAML1 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

#### Product Details

Sequence: EDVGTSLYFV NDSLQHVTFSSVGVVPCP AAGSPSAALR WYLATGDDIY DVPHIRHVHA  
 NGTLQLFPFS PSFNSFIHD NDYFCTAENA AGKIRSPNIR IKAVFREPYT VRVEDQRSMR  
 GNVAVFKCLI PSSVQEYVSV VSWEKDTVSI TPENRFFITS HGGLYISDVQ KEDALSTYRC  
 ITQHKYSGET RQSNARLSV TDPAESIPTI LDGFHSQEVW TGHSVELPCA ASGYPIPAIR  
 WLKDRPLPA DSRWAKRITG LTISDLRTED SGTYICEVTN TFGSAEANGI LTVIDPLHVT  
 LTPKCLKTGI GSTVILSCAL TGSPEFTIRW YRNTELVLPG EASIRGLSN ETLLISSAQK  
 SHSGAYQCFA TRKAQTAQDF AIVLEDGTP RIVSSFSEKV VNPGEQFSLM CAAKGAPPPT  
 VTWALDDEPV VRDGSVRTNQ YTMDSGTTIS HMNVTGPQIR DGGVYRCTAR NSVGSAEYQA  
 RINVRGPPSI RAMRNITAVA GRDTLINCVR IGYPYYSIKW YKDALLLPDN HRQVVFENGT  
 LKLTDVQKGM DEGEYLCSVL IQPQLSISQS VHVAVKVPPL IQPFEPFAS IGQLLYPCV  
 VSSGDMPIRI TWRKDGQVII SGSGVTIESK EFMSSLQISS VSLKHNGNYT CIASNAATV  
 SRERQLIVRV PPRFVQPNN QDGIYGKAGV LNCSDVGYPP PKVMWKHAKG SGNPQQYHPV

PLTGRIQILP NSSLLIRHVL EEDIGYYLCQ ASNGVGTDIS KAMFLTVKIP AMITSHPNNT  
IAIKGHPKEL NCTARGERPI IIRWEKGDTV IDPDRVMRYA IATKDNNGDEV VSTLKLKPAD  
RGDSVFFSCH AINSYGEDRG LIQLTVQEPP DPPELEIREV KARSMNLRWT QRFDGNNSIT  
GFDIEYKNKS DSWDFKQSTR NISPTINQAN IVDLHPASVY SIRMYSFNKI GRSEPSKELT  
ISTEEAAPDG PPM DVTLQPV TSQSIQVTWK APKKELQNGV IRGYQIGYRE NSPGSNGQYS  
IVEMKATGDS EYITLDNLKK FAQYGVVVQA FNAGTGPSS SEINATTLED VPSQPPENVR  
ALSITSDVAV ISWSEPPRST LNGVLKGYRV IFWSLYVDGE WGEMQNVT TT RERVELRGME  
KFTNYSVQVL AYTQAGDGVR SSVLYIQTKE DVPGPPAGIK AVPSSASSV VSWLPPTKPN  
GVIRKYTIFC SSPGSGQPAP SEYETSPEQL FYRIAHLNRG QQYLLWAAV TSAGRGNSS  
KVTIEPAGKA PAKIISFGGT VTTPWMKDVR LPCNSVGDPA PAVKWKDSE DSAIPVSLDG  
HRLIHTNGTL LLRAVKAEDS GYYTCTATNT GGFDTIIVNL LVQVPPDQPR LTVSKTSASS  
ITLTWIPGDN GGSSIRGFVL QYSVDNSEEW KDVFISSER SFKLDSLKCG TWYKVKLAAK  
NSVSGRRISE IIEAKTHGRE PSFSKDQHLF THINSTHARL NLQGWNNGGC PITAVLEYR  
PKGTWAWQGV RANSSTEVFL TELREATWYE LRMACNSAG CGNETAQFAT LDYDGTSTIPP  
IKSAQGEGDD VKK

**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.
- Mouse Dscam1 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

## Product Details

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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: <ol style="list-style-type: none"><li>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.</li><li>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.</li></ol>
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

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## Target Details

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Target:	DSCAML1
Alternative Name:	Dscaml1 ( <a href="#">DSCAML1 Products</a> )
Background:	Cell adhesion molecule that plays a role in neuronal self-avoidance. Promotes repulsion between specific neuronal processes of either the same cell or the same subtype of cells. Promotes both isoneuronal self-avoidance for creating an orderly neurite arborization in retinal rod bipolar cells and heteroneuronal self-avoidance to maintain mosaic spacing between All amacrine cells (PubMed:19945391). Adhesion molecule that promotes lamina-specific synaptic connections in the retina: expressed in specific subsets of interneurons and retinal ganglion cells (RGCs) and promotes synaptic connectivity via homophilic interactions (By similarity). {ECO:0000250 UniProtKB:E1C8P7, ECO:0000269 PubMed:19945391}.
Molecular Weight:	173.5 kDa Including tag.
UniProt:	<a href="#">Q4VA61</a>

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## 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
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## Application Details

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though.

Comment: Protein has not been tested for activity yet. 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)

## Images

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**Image 1.** „Crystallography Grade“ protein due to multi-step, protein-specific purification process