Datasheet for ABIN3092169

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

1 Image

Go to Product page

Overview

Quantity:	1 mg
Target:	DSCAML1
Protein Characteristics:	AA 19-1591
Origin:	Human
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 NDSLQQVTFS SSVGVVVPCP AAGSPSAALR WYLATGDDIY DVPHIRHVHA NGTLQLYPFS PSAFNSFIHD NDYFCTAENA AGKIRSPNIR VKAVFREPYT VRVEDQRSMR GNVAVFKCLI PSSVQEYVSV VSWEKDTVSI IPEHRFFITY HGGLYISDVQ KEDALSTYRC ITKHKYSGET RQSNGARLSV TDPAESIPTI LDGFHSQEVW AGHTVELPCT ASGYPIPAIR WLKDGRPLPA DSRWTKRITG LTISDLRTED SGTYICEVTN TFGSAEATGI LMVIDPLHVT LTPKKLKTGI GSTVILSCAL TGSPEFTIRW YRNTELVLPD EAISIRGLSN ETLLITSAQK SHSGAYQCFA TRKAQTAQDF AIIALEDGTP RIVSSFSEKV VNPGEQFSLM CAAKGAPPPT VTWALDDEPI VRDGSHRTNQ YTMSDGTTIS HMNVTGPQIR DGGVYRCTAR NLVGSAEYQA RINVRGPPSI RAMRNITAVA GRDTLINCRV IGYPYYSIKW YKDALLLPDN HRQVVFENGT LKLTDVQKGM DEGEYLCSVL IQPQLSISQS VHVAVKVPPL IQPFEFPPAS IGQLLYIPCV VSSGDMPIRI TWRKDGQVII SGSGVTIESK EFMSSLQISS VSLKHNGNYT CIASNAAATV SRERQLIVRV PPRFVVQPNN QDGIYGKAGV LNCSVDGYPP PKVMWKHAKG SGNPQQYHPV

PLTGRIQILP NSSLLIRHVL EEDIGYYLCQ ASNGVGTDIS KSMFLTVKIP AMITSHPNTT IAIKGHAKEL NCTARGERPI IIRWEKGDTV IDPDRVMRYA IATKDNGDEV VSTLKLKPAD RGDSVFFSCH AINSYGEDRG LIQLTVQEPP DPPELEIREV KARSMNLRWT QRFDGNSIIT GFDIEYKNKS DSWDFKQSTR NISPTINQAN IVDLHPASVY SIRMYSFNKI GRSEPSKELT ISTEEAAPDG PPMDVTLQPV TSQSIQVTWK APKKELQNGV IRGYQIGYRE NSPGSNGQYS IVEMKATGDS EVYTLDNLKK FAQYGVVVQA FNRAGTGPSS SEINATTLED VPSQPPENVR ALSITSDVAV ISWSEPPRST LNGVLKGYRV IFWSLYVDGE WGEMQNITTT RERVELRGME KFTNYSVQVL AYTQAGDGVR SSVLYIQTKE DVPGPPAGIK AVPSSASSVV VSWLPPTKPN GVIRKYTIFC SSPGSGQPAP SEYETSPEQL FYRIAHLNRG QQYLLWVAAV TSAGRGNSSE KVTIEPAGKA PAKIISFGGT VTTPWMKDVR LPCNSVGDPA PAVKWTKDSE DSAIPVSMDG HRLIHTNGTL LLRAVKAEDS GYYTCTATNT GGFDTIIVNL LVQVPPDQPR LTVSKTSASS ITLTWIPGDN GGSSIRGFVL QYSVDNSEEW KDVFISSSER SFKLDSLKCG TWYKVKLAAK NSVGSGRISE IIEAKTHGRE PSFSKDQHLF THINSTHARL NLQGWNNGGC PITAIVLEYR PKGTWAWQGL RANSSGEVFL TELREATWYE LRMRACNSAG CGNETAQFAT LDYDGSTIPP IKSAQGEGDD VKK

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 DSCAML1 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

Product Details

	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 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:	DSCAML1
Alternative Name:	DSCAML1 (DSCAML1 Products)
Background:	Cell adhesion molecule that plays a role in neuronal self-avoidance (PubMed:11453658). 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 AII amacrine cells (By similarity). 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:0000250|UniProtKB:Q4VA61, ECO:0000269|PubMed:11453658}.
Molecular Weight:	173.7 kDa Including tag.
UniProt:	Q8TD84

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies

Application Details

	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 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