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Datasheet for ABIN3136279

SSC5D Protein (AA 17-1371) (His tag)

Overview

Quantity:	1 mg
Target:	SSC5D
Protein Characteristics:	AA 17-1371
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SSC5D protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	IERLRLADGP HGCAGRLEWV HSGRWGTVCD DGWDLRDAEV ACRVLGCGGA LAAPGGAFFG EGTGPVWLSE LNCRGNEGQL GICPHRGWKA HICSHEEDAG VCVGQRAAN SREDSMSLLD GDPWLALS GE LSPSSEEPPI THAPQPAASS QNGPRKKNPR PPKQTKSTRA PVLTNGAPHQ ERLRLVSGPH GCAGRLEVWH GGRWGTVCDD GWDLRDAAVA CRELGCGGAL AAPGGARFGP GEGPVWMDDV GCGGGEEALR DCPRSPWGRS NCDHTEDAGL VCTGPAPRIR LADGPHGCAG RLEVWHGGRW GSVCDDAWDL RDAAVACKEL GCGGALAAPG GAFFGEGTGP IILDDLRCRG NETALRFCPA RPWGQHDCHH REDAGAVCDG MPLGAVQPTV PAVDSNSTAH RLLSTSVGQM PGPAGPWPPS ASPTAPPEPG PEAGSPQLRL VAGPSRCSGR LEVWHDGRWG TVCDDSWDMR DSAVVCRELG CGRPRQPDPA AGRFGWGAGP IWLLDDVGCMG TEASLSECPA ASWGKHNCBH NEDVGVTCTG TPGLDTISDP FSWSWLPGLG RDQDAWLPGE LTTKPSASLT SSVPQKPTKV PGKAPKSTKK WVTKNARRPT TQPPGMPTTK HSRAPGTPTS LHPTARTSEL PKRLTTEAPH RQTSHTTVRL TPRVPWEWTS EPVVSQSTQG PQEVTSEATT TENPQTSLEP SGENTEGSLE
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SSQDPATTPT AGVPVPSGPF RVRLADGPNR CAGRLEVWHA GLWGTVCDDSD WDIRDATVAC
WELGCGKVRP RVGKTHYGPG TGPIWLDDMG CKGSEMSLSD CPSGAWGKHN CDHEEDVVLT
CTGYTGDDDY PSWTWDPTSG EDLTKGTTVA ARPGHTLSWA TTTNTEVPSP ATQNLPTDD
QGGYESSWTW DTPSGRGLFK GTPTTTKPGS TVTTSTSKSP GHPFPAPRAR AGSPRKPTPE
RRPLPTSATT SSPASSSSPE PSGSRQTSQS WPQLIPDSKQ EGTSSSPKPS LLTPGLPSA
TFALSTPNTS LLPTRSELS GSPTPTSPEG LTSASSMLSE VSRLSPTSEL TPGPDTPAP
EIIPSSDSS DLPMNTRTPT QPFTASHPTS IPQLNTTSYP TIAPQPTNP QQPRSPHPAT
SPQPPTNTHP SSTPATPTES LPSSRKTELS SPTKPRLNSE LTFFEEPSTD ASQTQNLELF
LASESGPSSP SPASNLDPLP TDAFKPPRSQ TLHSASDHLT QGPTPNHNPD PFGPCVSPLP
PVRVMACEPP ALVELVGAVR EVGDQLQRLT WVLEQDRQER QVLALGLAQL VEAAQGLGQL
SETVKRLAEV AWPSTPVPM TTTTEEEERP LRGDV

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.
- Mouse Ssc5d 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.

Purification:

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

Product Details

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:	SSC5D
Alternative Name:	Ssc5d (SSC5D Products)
Background:	Binds to extracellular matrix proteins. Binds to pathogen-associated molecular patterns (PAMPs) present on the cell walls of Gram-positive and Gram-negative bacteria and fungi, behaving as a pattern recognition receptor (PRR). Induces bacterial and fungal aggregation and subsequent inhibition of PAMP-induced cytokine release. Does not possess intrinsic bactericidal activity. May play a role in the innate defense and homeostasis of certain epithelial surfaces. {ECO:0000269 PubMed:21217009}.
Molecular Weight:	143.9 kDa Including tag.
UniProt:	Q8BV57

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 guarantee 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

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)