



[Go to Product page](#)

Datasheet for ABIN3095900
TIAM1 Protein (AA 2-1591) (His tag)

Overview

Quantity:	1 mg
Target:	TIAM1
Protein Characteristics:	AA 2-1591
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TIAM1 protein is labelled with His tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB), Crystallization (Crys)

Product Details

Sequence: GNAESQHVEH EFYGEKHASL GRKHTSRSLR LSHKTRRTRH ASSGKVIHRN SEVSTRSSST
PSIPQSLAEN GLEPFSQDGT LEDFGSPIWV DRVDMGLRPV SYTDSSVTPS VDSSIVLTAA
SVQSMPDTEE SRLYGDDATY LAEGGRRQHS YTSNGPTFME TASFKKKRSK SADIWREDSL
EFSLSDLSQE HLTSNNEILG SAEKDCEEA RGMETRASPR QLSTCQRANS LGDLYAQKNS
GVTANGGPGS KFAGYCRNLV SDIPNLANHK MPPAAAEETP PYSNYNTLPC RKSHCLSEGA
TNPQISHSNS MQGRRAKTTQ DVNAGEGSEF ADSGIEGATT DTDLLSRRSN ATNSSYSPTT
GRAFVGSDSG SSSTGDAARQ GUYENFRREL EMSTTNSESL EEAGSAHSDE QSSGTLSSPG
QSDILLTAAQ GTVRKAGALA VKNFLVHKKN KKVESATTRK WKHYWVSLKG CTLFFYESDG
RSGIDHNSIP KHAVWVENSIVQAVPEHPKK DVFVCLNSNL GDAFLFQTTS QTELENWITA
IHSACATAVA RHHHKEDTLR LLKSEIKKLE QKIDMDEKMK KMGEMQLSSV TDSKSKKTKIL
DQIFVWEQNL EQFQMDLFRF RCYLASLQGG ELPNPKRLLA FASRPTKVAM GRLGIFSVSS
FHALVAARTG ETGVRRTQA MSRSASKRRS RFSSLWGLDT TSKKKQGRPS INQVFGEGTE

AVKKSLEGIF DDIVPDGKRE KEVVLPNVHQ HNPDCDIWVH EYFTPSWFCL PNNQPALTVV
RPGDTARDTL ELICKTHQLD HSAHYLRLKF LIENKMQLYV PQPEEDIYEL LYKEIEICPK
VTQSIHIEKS DTAADTYGFS LSSVEEDGIR RLYVNSVKET GLASKKGLKA GDEILEINNR
AADALNSSML KDFLSQPSLG LLVRTYPELE EGVELLESPP HRVDGPADLG ESPLAFLTSN
PGHSLCSEQG SSAETAPEET EGPDLESSDE TDHSSKSTEQ VAAFCSRSLHE MNPSDQSPSP
QDSTGPQLAT MRQLSDADKL RKVICELLET ERTYVKDLNC LMERYLKPLQ KETFLTQDEL
DVLFGNLTEM VEFQVEFLKT LEDGVRLVPD LEKLEKVDQF KKVLFSLGGS FLYYADRFKL
YSAFCASHTK VPKVLVKAKT DTAFKAFLDA QNPKQHSST LESYLIKPIQ RILKYPLLLR
ELFALTDAES EEHYHLDVAI KTMNKVASHI NEMQKIHEEF GAVFDQLIAE QTGEKKEVAD
LSMGDLLLHT TVIWLNPPAS LGKWKKEPEL AAFVFKTAVV LVYKDGSKQK KKLVGSHRLS
IYEDWDPFRF RHMIPTALQ VRALASADAE ANAVCEIVHV KSESEGRPER VFHLCCSSPE
SRKDFLKAVH SILRDKHRRQ LLKTESLPSS QQYVPFGGKR LCALKGARPA MSRAVSAPSK
SLGRRRRRLA RNRFTIDSDA VSASSPEKES QQPPGGGDTD RWVEEQFDLA QYEEQDDIKE
TDILSDDDEF CESVKGASVD RDLQERLQAT SISQRERGRK TLDSHASRMA QLKKQAALSG
INGGLESASE EVIWRREDF APSRKLNTEI

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 TIAM1 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

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: <ol style="list-style-type: none">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:	TIAM1
Alternative Name:	TIAM1 (TIAM1 Products)
Background:	Modulates the activity of RHO-like proteins and connects extracellular signals to cytoskeletal activities. Acts as a GDP-dissociation stimulator protein that stimulates the GDP-GTP exchange activity of RHO-like GTPases and activates them. Activates RAC1, CDC42, and to a lesser extent RHOA. Required for normal cell adhesion and cell migration. {ECO:0000269 PubMed:20361982}.
Molecular Weight:	178.3 kDa Including tag.
UniProt:	Q13009

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:	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

Application Details

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)