

Datasheet for ABIN3095194
SAMD9 Protein (AA 1-1589) (His tag)[Go to Product page](#)

1 Image

Overview

Quantity:	1 mg
Target:	SAMD9
Protein Characteristics:	AA 1-1589
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SAMD9 protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MAKQLNLPEN TDDWTKEDVN QWLESHKIDQ KHREILTEQD VNGAVLKWLK KEHLVDMGIT HGPAIQIEEL FKELRKTAIE DSIQTSKMGK PSKNAPKDQT VSQKERRETS KQKQKGKENP DMANPSAMST TAKGSKSLKV ELIEDKIDYT KERQPSIDLT CVSYPFDEFS NPYRYKLDFS LQPETGPGNL IDPIHEFKAF TNTATATEED VKMKFSNEVF RFASACMNSR TNGTIHFGVK DKPHGKIVGI KVTNDTKEAL INHFNLMINK YFEDHQVQQA KKCIREPRFV EVLLPNSTLS DRFVIEVDII PQFSECQYDY FQIKMQNYNN KIWEQSKKFS LFVRDGTSSK DITKNKVDFR AFKADFKTLA ESRKAAEEKF RAKTNKKERE GPKLVKLLTG NQDLLDNSYY EQYILVTNKC HPDQTKHLDF LKEIKWFAVL EFDPESSING VVKAYKESRV ANLHFPSVYV EQKTTPNETI STLNLYHQPS WIFCNGRLDL DSEKYKPFDP SSWQRERASD VRKLISFLTH EDIMPRGKFL VVFLLSSVD DPRDPLIETF CAFYQDLKGM ENILCICVHP HIFQGWDLL EARLIKHQDE ISSQCISALS LEEINGTILK LKSVTQSSKR LLPSIGLSTV LLKKEEDIMT ALEIICENEC EGTLLKDKN KFLEFKASKE EDFYRGKVS WWNFYFSSES YSSPFVKRDK YERLEAMIQN CADSSKPTST
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KIIHLYHHPG CGGTTLAMHI LWELRKKFRC AVLKNKTVDF SEIGEQTSL ITYGAMNRQE
YVPVLLLVDD FEEQDNVYLL QYSIQTAIAK KYIRYEKPLV IILNCMRSQN PEKSARIPDS
IAVIQQLSPK EQRAFELKLK EIKEQHKNFE DFYSFMIMKT NFNKEYIENV VRNILKGQNI
FTKEAKLFSF LALLNSYVPD TTISLSQCEK FLGIGNKKAF WGTEKFEDKM GTYSTILIKT
EVIECGNYCG VRIIHSIAE FSLEELKKS Y HLNKSQIMLD MLTENLFFDT GMGKSKFLQD
MHTLLLTRHR DEHEGETGNW FSPFIEALHK DEGNEAVEAV LLESIHRFNP NAFICQALAR
HFYIKKKDFG NALNWAKQAK IIEPDNSYIS DTLGQVYKSK IRWWIEENG NGNISVDDLI
ALLDLAEHAS SAFKESQQQS EDREYEVKER LYPKSKRRYD TYNIAGYQGE IEVGLYTIQI
LQLIPFFDNK NELSKRYMVN FVSGSSDIPG DPNNEYKLAL KNYIPYLT KLK FSLKKSDFD
FDEYFVLLKP RNNIKQNEEA KTRRKVAGYF KKYVDIFCLL EESQNNTGLG SKFSEPLQVE
RCRRNLVALK ADKFSGLLEY LIKSQEDAIS TMKCIVNEYT FLLEQCTVKI QSKEKLNFI ANILSCIQP
TSRLVKPVEK LKDQLREVLQ PIGLTYQFSE PYFLASLLFW PENQQLDQHS EQMKEYAQAL
KNSFKGQYKH MHRTKQPIAY FFLGKGKRLE RLVHKGKIDQ CFKKTDPINS LWQSGDVWKE
EKVQELLRL QGRAENNCLY IEYGINEKIT IPITPAFLGQ LRSGRSIEKV SFYLGFSIGG PLAYDIEIV

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 SAMD9 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.

Product Details

	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:	SAMD9
Alternative Name:	SAMD9 (SAMD9 Products)
Background:	May play a role in the inflammatory response to tissue injury and the control of extra-osseous calcification, acting as a downstream target of TNF-alpha signaling. Involved in the regulation of EGR1, in coordination with RGL2. {ECO:0000269 PubMed:16960814, ECO:0000269 PubMed:18094730, ECO:0000269 PubMed:21160498}.
Molecular Weight:	185.2 kDa Including tag.
UniProt:	Q5K651

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 increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

Application Details

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