

Datasheet for ABIN3119219
THSD7A Protein (AA 48-1657) (rho-1D4 tag)[Go to Product page](#)

1 Image

Overview

Quantity:	1 mg
Target:	THSD7A
Protein Characteristics:	AA 48-1657
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This THSD7A protein is labelled with rho-1D4 tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), Crystallization (Crys), ELISA

Product Details

Sequence:	AAQGEAEAPT LYLWKTGPWG RCMGDECGPG GIQTRAVWCA HVEGWTTLHT NCKQAERPNN QQNCFKVC DW HKELYDWRLG PWNQCQPVIS KSLEKPLECI KGEEGIQVRE IACIQKDKDI PAEDIICEYF EPKPLLEQAC LIPCQQDCIV SEFSAWSECS KTCGSGLQHR TRHVVAPPQF GGSGCPNLTE FQVCQSSPCE AEELRYSLVH GPWSTCSMPH SRQVRQARRR GKNKEREKDR SKGVKDPEAR ELIKKKRNRN RQNRQENKYW DIQIGYQTRE VMCINKTGKA ADLSFCQQEK LPMTFQSCVI TKECQVSEWS EWSPCSKTCH DMVSPAGTRV RTRTIRQFPI GSEKECFEFE EKEPCLSQGD GVVPCATYGW RTTEWTECRV DPLLSQQDKR RGNQTALCGG GIQTREYVCV QANENLLSQL STHKNKEASK PMDLKLCTGP IPNTTQLCHI PCPTECEVSP WSAWGPCTYE NCNDQQGKKG FKLRKRRITN EPTGGSGVTG NCPHLLAIP CEEPACYDWK AVRLGNCEPD NGKECGPGTQ VQEVVCINS D GEEVDRQLCR DAIFPIPVAC DAPCPKDCVL STWSTWSSCS HTCSGKTTEG KQIRARSILA YAGEEGGIRC PNSSALQEV R SCNEHPCTVY HWQTGPWGQC IEDTSVSSFN TTTTWNGEAS CSVGMQTRKV ICVRVNVGQV GPKKCPESLR PETVRPCLLP
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CKKDCIVTPY SDWTSCPSSC KEGDSSIRKQ SRHRVIIQLP ANGGRDCTDP LYEEKACEAP
QACQSYRWKT HKWRRRCQLVP WSVQQDSPGA QEGCGPGRQA RAITCRKQDG GQAGIHECLQ
YAGPVPALTQ ACQIPCQDDC QLTWSKSFSS CNGDCGAVRT RKRTLVGKSK KKEKCKNSHL
YPLIETQYCP CDKYNAQPVG NWSDCILPEG KVEVLLGMKV QGDIKECGQG YRYQAMACYD
QNGRLVETSR CNSHG YIEEA CIIPCPSDCK LSEWSNWSRC SKSCGSGVKV RSKWLREKPY
NGGRPCPKLD HVNQAQVYEV VPCHSDCNQY LWVTEPWSIC KVTFVNMREN CGEGVQTRKV
RCMQNTADGP SEHVEDYLCD PEEMPLGSRV CKLPCPEDCV ISEWGPWTQC VLPCNQSSFR
QRSADPIRQP ADEGRSCPNA VEKEPCNLNK NCYHYDYNVT DWSTCQLSEK AVCGNGIKTR
MLDCVRSDGK SVDLKYCEAL GLEKNWQMNT SCMVECPVNC QLSDWSPWSE CSQTCGLTGK
MIRRRTVTQP FQGDGRPCPS LMDQSKPCPV KPCYRWQYQG WSPCQVQEAQ CGEGTRTRNI
SCVVSDGSAD DFSKVVEEF CADIELIIDG NKNMVLEESC SQPCPGDCYL KDWSSWSLCQ
LTCVNGEDLG FGGIQVRSRP VIIQELNQH LCPEQMLET K SCYDGQCYEY KWMASAWKGS
SRTVWCQRSD GINVTGGCLV MSQPDADRSC NPPCSQPHSY CSETKTCHCE EGYTEVMSSN
STLEQCTLIP VVVLPTMEDK RGDVKTSRAV HPTQPSSNPA GRGRTWFLQP FGPDGRLKTW
VYGVAAGAFV LLIFIVSMIY LACKKPKKPQ RRQNNRLKPL TLAYDGDADM

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 THSD7A 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:	Three step purification of membrane proteins expressed in baculovirus infected SF9 insect cells: 1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot. 2. The best performing detergent is used for solubilization and the proteins are purified via their rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot. 3. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatograph. 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:	THSD7A
Alternative Name:	THSD7A (THSD7A Products)
Background:	The soluble form promotes endothelial cell migration and filopodia formation during angiogenesis via a FAK-dependent mechanism. {ECO:0000269 PubMed:22194972}.
Molecular Weight:	181.6 kDa Including tag.
UniProt:	Q9UPZ6

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)

Images



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