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THBS4 Protein (AA 27-961) (His tag)



Overview

Quantity:	1 mg
Target:	THBS4
Protein Characteristics:	AA 27-961
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This THBS4 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:

TPQVFDLLPS SSQRLNPGAL LPVLTDPALN DLYVISTFKL QTKSSATIFG LYSSTDNSKY
FEFTVMGRLN KAILRYLKND GKVHLVVFNN LQLADGRRHR ILLRLSNLQR GAGSLELYLD
CIQVDSVHNL PRAFAGPSQK PETIELRTFQ RKPQDFLEEL KLVVRGSLFQ VASLQDCFLQ
QSEPLAATGT GDFNRQFLGQ MTQLNQLLGE VKDLLRQQVK ETSFLRNTIA ECQACGPLKF
QSPTPSTVVP PAPPAPPTRP PRRCDSNPCF RGVQCTDSRD GFQCGPCPEG YTGNGITCID
VDECKYHPCY PGVHCINLSP GFRCDACPVG FTGPMVQGVG ISFAKSNKQV CTDIDECRNG
ACVPNSICVN TLGSYRCGPC KPGYTGDQIR GCKAERNCRN PELNPCSVNA QCIEERQGDV
TCVCGVGWAG DGYICGKDVD IDSYPDEELP CSARNCKKDN CKYVPNSGQE DADRDGIGDA
CDEDADGDGI LNEQDNCVLI HNVDQRNSDK DIFGDACDNC LSVLNNDQKD TDGDGRGDAC
DDDMDGDGIK NILDNCPKFP NRDQRDKDGD GVGDACDSCP DVSNPNQSDV DNDLVGDSCD
TNQDSDGDGH QDSTDNCPTV INSAQLDTDK DGIGDECDDD DDNDGIPDLV PPGPDNCRLV
PNPAQEDSNS DGVGDICESD FDQDQVIDRI DVCPENAEVT LTDFRAYQTV VLDPEGDAQI

DPNWVVLNQG MEIVQTMNSD PGLAVGYTAF NGVDFEGTFH VNTQTDDDYA GFIFGYQDSS SFYVVMWKQT EQTYWQATPF RAVAEPGIQL KAVKSKTGPG EHLRNSLWHT GDTSDQVRLL WKDSRNVGWK DKVSYRWFLQ HRPQVGYIRV RFYEGSELVA DSGVTIDTTM RGGRLGVFCF SQENIIWSNL KYRCNDTIPE DFQEFQTQNF DRFDN

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 THBS4 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 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.
- 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.

Product Details Sterility: 0.22 µm filtered Protein is endotoxin free. Endotoxin Level: Grade: Crystallography grade **Target Details** THBS4 Target: Alternative Name: THBS4 (THBS4 Products) Adhesive glycoprotein that mediates cell-to-cell and cell-to-matrix interactions and is involved in Background: various processes including cellular proliferation, migration, adhesion and attachment, inflammatory response to CNS injury, regulation of vascular inflammation and adaptive responses of the heart to pressure overload and in myocardial function and remodeling. Binds to structural extracellular matrix (ECM) proteins and modulates the ECM in response to tissue damage, contributing to cardioprotective and adaptive ECM remodeling. Plays a role in ER stress response, via its interaction with the activating transcription factor 6 alpha (ATF6) which produces adaptive ER stress response factors and protects myocardium from pressure overload. May contribute to spinal presynaptic hypersensitivity and neuropathic pain states after peripheral nerve injury. May play a role in regulating protective astrogenesis from the subventricular zone (SVZ) niche after injury in a NOTCH1-dependent manner (By similarity). {ECO:0000250, ECO:0000269|PubMed:19441079}. Molecular Weight: 104.1 kDa Including tag. UniProt: P35443 **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 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)