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Datasheet for ABIN3095882

Tenascin N Protein (TNN) (AA 29-1299) (His tag)

1 Image

Overview

Quantity:	1 mg
Target:	Tenascin N (TNN)
Protein Characteristics:	AA 29-1299
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Tenascin N protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence: EPPGCSNKEQ QVTVSHTYKI DVPKSALVQV DADPQPLSDD GASLLALGEA REEQNIIFRH
 NIRLQTPQKD CELAGSVQDL LARVKKLEEE MVEMKEQCSA QRCCQGVTDL SRHCSGHGTF
 SLETCSCHCE EGREGPACER LACPGACSGH GRCVDGRCLC HEPYVGADCG YPACPENCSSG
 HGEVVRGVCQ CHEDFMSEDC SEKRCPGDCS GHGFCDTGEC YCEEGFTGLD CAQVVTPQGL
 QLLKNTEDSL LVSWEPSSQV DHYLLSYYPL GKELSGKQIQ VPKEQHSYEI LGLLPGTKYI
 VTLRNVKNEV SSSPQHLLAT TDLAVLGTAW VTDETENSLD VEWENPSTEV DYYKLRYGPM
 TGQEAQVTV PKSSDPKSRV DITGLHPGTE YKIVVPMRG ELEGKPILLN GRTEIDSPTN
 VVTDRVTEDT ATVSWDPVQA VIDKYVVRYT SADGDTKEMA VHKDESSTVL TGLKPGEAYK
 VYVWAERGNQ GSKKADTNAL TEIDSPANLV TDRVTENTAT ISWDPVQATI DKYVVRYTSA
 DDQETREVLV GKEQSSTVLT GLRPGVEYTV HVWAQKGDRE SKKADTNAPT DIDSPKNLVT
 DRVTENMATV SWDPVQAAID KYVVRYTSAG GETREVPVGK EQSSTVLTGL RPYMEYMHVH
 WAQKGDQESK KADTKAQTDI DSPQNLVTDR VTENMATVSW DPVRATIDRY VVRYTSKDG

ETREVPVGKE QSSTVLTGLR PGVEYTVHVW AQKGAQESKK ADTKAQTIDID SPQNLVTDWV
TENTATVSWD PVQATIDRYV VHYTSANGET REVPVGKEQS STVLTGLRPG MEYTVHVWQAQ
KGNQESKKAD TKAQTEIDGP KNLVTDWVTE NMATVSWDPV QATIDKYMVR YTSADGETRE
VPVGKEHSST VLTGLRPGME YMVHVWQAQKG AQESKKADTK AQTELDPPRN LRPSAVTQSG
GILTWTPPSA QIHGYILTYQ FPDGTVKEMQ LGREDQRFAL QGLEQGATYP VSLVAFKGG
RSRNVSTTLS TVGARFPHPS DCSQVQQNSN AASGLYTIYL HGDASRPLQV YCDMETDGGG
WIVFQRRNTG QLDFFKRWRS YVEGFGDPMK EFWLGLDKLH NLTTGTPARY EVRVLDQTAN
ESAYAIYDFF QVASSKERYK LTVGKYRGTA GDALTYHNGW KFTTFDRDND IALSNCALTH
HGGWWYKNCH LANPNGRYGE TKHSEGVNWE PWKGHEFSIP YVELKIRPHG YSREPVLRK
KRTLGRRLRT F

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 TNN 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:

1. In a first purification step, the protein is purified from the cleared cell lysate using three

Product Details

- 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: Tenascin N (TNN)

Alternative Name: TNN ([TNN Products](#))

Background: Involved in neurite outgrowth and cell migration in hippocampal explants.
{ECO:0000250|UniProtKB:Q80Z71}.

Molecular Weight: 142.0 kDa Including tag.

UniProt: [Q9UQP3](#)

Pathways: [ACE Inhibitor Pathway](#)

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.

Restrictions: For Research Use only

Handling

Format: Liquid

Handling

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