

Datasheet for ABIN3131086

Meningioma 1 Protein (AA 1-1297) (His tag)



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1 Image

Overview

Quantity:	1 mg
Target:	Meningioma 1 (MN1)
Protein Characteristics:	AA 1-1297
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Meningioma 1 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence: MFGLDQFEPQ INSRHAGQGE GNFNEAGLSM NAHFKAPAFH AGPPTGPVDP AISALGEPPI
LGLNMEPYGF HARSHSELHA GGLQAQPVHG FFGGQQPHHS HPGGHHPHQH HPHFGGNFGG
PDPGASCLHG GRLLGYGGAA GGLGSQPPFA ESYEHMAESQ GPEGFGPQRP GNLPDFHSSG
TSGHAVPAPC LPLDQSPNRA ASFHGLSASS GSDSHSLEPR RVTNQGAVDS LEYNYPSEPP
SGHFDMFSPS DSEGQLPHYA AGRQVPGGAF PGASAMPRAS GMVGLSKMHS QPPQPPPQQQ
QPQHGVEFFER FGGARKMPVG LPAVGSRHP LMQPPQQAPP PPQPPPPQQ PPPPGLLVRQ
NSCPPALPRP QQGEAGTPSG GLQDGGPMLP SQHAQFEYPI HRLNRSMPH YSEPVFSMQH
PPPQQAPNQR LQHFDAPPYM NVAKRPRFDF PGSAGVDRCA SWNGSMHNGT LDNQLSPSAY
PGLPGEFTPP VPDSFSSGPP LQHPGPDHQS LQQQQQQQQQ QQQQQQQQQQ QQQQQQQRQN
AALMIQMAS RNQQQLRQP NLAQLGHPGD VGQGGLVHGG SVGGLAQTNF EREGGSAGAG
RLSGFEQQAP HLAQESAWFP GPHPPGDLLP RRMGGAGLPT DCGPHDPALA PPPAPGGSGV
LFRGSLQEPL RMPGEGHVPA LASPGLQFGG SLAGLGQLQS PGAGVGLPNA PSERRPPPPD

FPAPALGGQP GFPPFGSGSRQ ATPHSAPGVN SPSSAGSGSS GAGGGAYPPQ PDFQPSQRNS
ASKLGALSLG SFNKPSSKDN LFGQSCLAAL STACQNMIAS LGAPNLNVTF NKKNPPEGKR
KLSQNEPDSA VAAGNPGSDY FPGGTTTPGAP GPGGPGSTSG GGSKASGPPN PPIQGDSTSL
SPNYTLESTS GNDGKVPVGG SGRGRGRRKR DSGHVSPGTF FDKYSTAPDS GGAPGVSPGQ
QQAPGSAAGG SSVNEARGPT PHEKALTSPS WGKGAELLLG DQPDLMASLD STAKSDGSSP
HVGEFASDEV STSYANEDEV SSSSDNTTAL AKASRSPLVT SSPKLPPRGV GAGEHTPKAS
ALGLGILSTS TSTPDSYGGG VGTGHPGTPG LEQVRTPTSS SGAQPPDEIH PLEILQAQIQ
LQRQQFSISE DQPLGLKGSK KAECAVGASG AQNGDSELGS CCSEAVKSAM STIDLDSLMA
EHSTTWYMPP DKALVDGGDE DKTLAPWEKA KSQNPNNKEA HDHPTNKASA TQPGSHLQCL
TVHCTDGDPK ARTSVPTWRS LHSDISNRFG TFVAALT

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.
- Mouse Mn1 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

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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: Meningioma 1 (MN1)

Alternative Name: Mn1 ([MN1 Products](#))

Background: Transcriptional activator which specifically regulates expression of TBX22 in the posterior region of the developing palate (PubMed:18948418). Required during later stages of palate development for normal growth and medial fusion of the palatal shelves (PubMed:18948418). Promotes maturation and normal function of calvarial osteoblasts, including expression of the osteoclastogenic cytokine TNFSF11/RANKL (PubMed:19386590). Necessary for normal development of the membranous bones of the skull (PubMed:15870292). May play a role in tumor suppression (By similarity). {ECO:0000250|UniProtKB:Q10571, ECO:0000269|PubMed:15870292, ECO:0000269|PubMed:18948418, ECO:0000269|PubMed:19386590}.

Molecular Weight: 135.0 kDa Including tag.

UniProt: [D3YWE6](#)

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: Protein has not been tested for activity yet. 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

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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