Datasheet for ABIN3136401

NRIP1 Protein (AA 1-1161) (His tag)

1 Image

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Overview

Quantity:	1 mg
Target:	NRIP1
Protein Characteristics:	AA 1-1161
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NRIP1 protein is labelled with His tag.
Application:	Western Blotting (WB), ELISA, Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	MTHGEELGSD VHQDSIVLTY LEGLLMHQAA GGSGTAINKK SAGHKEEDQN FNLSGSAFPS CQSNGPTVST QTYQGSGMLH LKKARLLQSS EDWNAAKRKR LSDSIVNLNV KKEALLAGMV DSVPKGKQDS TLLASLLQSF SSRLQTVALS QQIRQSLKEQ GYALSHESLK VEKDLRCYGV ASSHLKTLLK KSKTKDQKSG PTLPDVTPNL IRDSFVESSH PAVGQSGTKV MSEPLSCAAR LQAVASMVEK RASPAASPKP SVACSQLALL LSSEAHLQQY SREHALKTQN AHQVASERLA AMARLQENGQ KDVGSSQLSK GVSGHLNGQA RALPASKLVA NKNNAATFQS PMGVVPSSPK NTSYKNSLER NNLKQAANNS LLLHLLKSQT IPTPMNGHSQ NERASSFESS TPTTIDEYSD NNPSFTDDSS GDESSYSNCV PIDLSCKHRI EKPEAERPVS LENLTQSLLN TWDPKIPGVD IKEDQDTSTN SKLNSHQKVT LLQLLLGHKS EETVERNASP QDIHSDGTKF SPQNYTRTSV IESPSTNRTT PVSTPPLYTA SQAESPINLS QHSLVIKWNS PPYACSTPAS KLTNTAPSHL MDLTKGKESQ AEKPAPSEGA QNSATFSASK LLQNLAQCGL QSSGPGEEQR PCKQLLSGNP DKPLGLIDRL NSPLLSNKTN AAEESKAFSS QPAGPEPGLP GCEIENLLER RTVLQLLLGN

	SSKGKNEKKE KTPARDEAPQ EHSERAANEQ ILMVKIKSEP CDDFQTHNTN LPLNHDAKSA PFLGVTPAIH RSTAALPVSE DFKSEPASPQ DFSFSKNGLL SRLLRQNQES YPADEQDKSH RNSELPTLES KNICMVPKKR KLYTEPLENP FKKMKNTAVD TANHHSGPEV LYGSLLHQEE LKFSRNELDY KYPAGHSSAS DGDHRSWARE SKSFNVLKQL LLSENCVRDL SPHRSDSVPD TKKKGHKNNA PGSKPEFGIS SLNGLMYSSP QPGSCVTDHR TFSYPGMVKT PLSPPFPEHL GCVGSRPEPG LLNGCSVPGE KGPIKWVIAD MDKNEYEKDS PRLTKTNPIL YYMLQKGGGN SVTTQETQDK DIWREPASAE SLSQVTVKEE LLPAAETKAS FFNLRSPYNS HMGNNASRPH STNGEVYGLL GNALTIKKES E **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 Nrip1 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.

Product Details

	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:	NRIP1
Alternative Name:	Nrip1 (NRIP1 Products)
Background:	Modulates transcriptional repression by nuclear hormone receptors such as NR2C1, thyroid hormone receptor and retinoic acid receptor/RARA. Essential for cumulus expansion and follicle rupture during ovulation. Also controls the balance between fat accumulation and energy expenditure. Positive regulator of the circadian clock gene expression: stimulates transcription of ARNTL/BMAL1, CLOCK and CRY1 by acting as a coactivator for RORA and RORC. {ECO:0000269|PubMed:10531331, ECO:0000269|PubMed:11100122, ECO:0000269|PubMed:15130509, ECO:0000269|PubMed:15155905, ECO:0000269|PubMed:15919748, ECO:0000269|PubMed:21628546, ECO:0000269|PubMed:9774688}.
Molecular Weight:	127.3 kDa Including tag.
UniProt:	Q8CBD1
Pathways:	Intracellular Steroid Hormone Receptor Signaling 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 gurantee 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

Application Details

	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

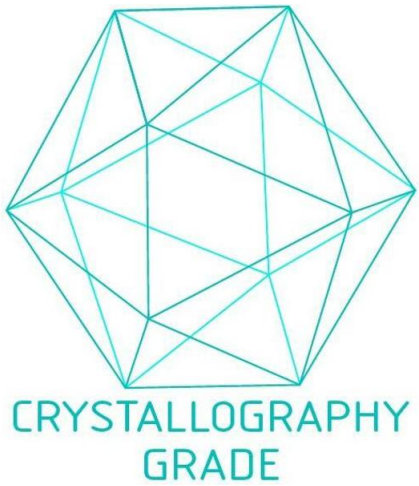

Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process