

Datasheet for ABIN3133766 NR5A1 Protein (AA 1-462) (His tag)



[Go to Product page](#)

1 Image

Overview

Quantity:	1 mg
Target:	NR5A1
Protein Characteristics:	AA 1-462
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NR5A1 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence: MDYSYDEDLD ELCPVCGDKV SGYHYGLLTC ESCKGFFKRT VQNNKHYTCT ESQSCKIDKT
QKRKCPFCRF QKCLTVGMRL EAVRADRMGR GRNKFGPMYK RDRALKQQKK AQIRANGFKL
ETGPPMGVPP PPPPPPDYML PPSLHAPEPK ALVSGPPSPG LGDFGAPSLP MAVPGPHGPL
AGLYPAFSN RTIKSEYPEP YASPPQQPGP PYSYPEPFSG GPNVPELILQ LLQLEPEEDQ
VRARIVGCLQ EPAKSRSDQP APFSLLCRMA DQTFISIVDW ARRCMVFKEL EVADQMTLLQ
NCWSELLVLD HIYRQVQYGK EDSILLVTGQ EVELSTVAVQ AGSLLHSLVL RAQELVLQLH
ALQLDRQEFV CLKFLILFSL DVKFLNNHSL VKDAQEKANA ALLDYTLCHY PHCGDKFQQL
LLCLVEVRAL SMQAKEYLYH KHLGNEMPRN NLLIEMLQAK QT

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 Nr5a1 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: <ol style="list-style-type: none">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.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:	NR5A1
Alternative Name:	Nr5a1 (NR5A1 Products)

Target Details

Background:	Transcriptional activator. Seems to be essential for sexual differentiation and formation of the primary steroidogenic tissues. Binds to the Ad4 site found in the promoter region of steroidogenic P450 genes such as CYP11A, CYP11B and CYP21B. Also regulates the AMH/Muellerian inhibiting substance gene as well as the AHCH and STAR genes. 5'-YCAAGGYC-3' and 5'-RRAGGTCA-3' are the consensus sequences for the recognition by NR5A1. The SFPQ-NONO-NR5A1 complex binds to the CYP17 promoter and regulates basal and cAMP-dependent transcriptional activity (By similarity). Transcription repressor of the Moloney leukemia virus long terminal repeat in undifferentiated murine embryonal carcinoma cells. Binds phosphatidylcholine and phospholipids with a phosphatidylinositol (PI) headgroup, in particular phosphatidyl(3,4)bispophosphate, phosphatidyl(3,5)bispophosphate and phosphatidyl(3,4,5)triphosphate. Activated by the phosphorylation of NR5A1 by HIPK3 leading to increased steroidogenic gene expression upon cAMP signaling pathway stimulation. {ECO:0000250, ECO:0000269 PubMed:17210646, ECO:0000269 PubMed:18988706}.
Molecular Weight:	53.0 kDa Including tag.
UniProt:	P33242
Pathways:	Nuclear Receptor Transcription Pathway , Steroid Hormone Mediated Signaling Pathway , Maintenance of Protein Location

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 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.

Handling

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