antibodies

Datasheet for ABIN3095713 NR5A1 Protein (AA 1-461) (Strep Tag)





Overview

Quantity:	1 mg
Target:	NR5A1
Protein Characteristics:	AA 1-461
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This NR5A1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Characteristics	Kay Ranofits:
	have a special request, please contact us.
	system, a different complexity of the protein could make another tag necessary. In case you
	Sequence without tag. The proposed Strep-Tag is based on experience s with the expression
	LCLVEVRALS MQAKEYLYHK HLGNEMPRNN LLIEMLQAKQ T
	LQLDRQEFVC LKFIILFSLD LKFLNNHILV KDAQEKANAA LLDYTLCHYP HCGDKFQQLL
	CWSELLVFDH IYRQVQHGKE GSILLVTGQE VELTTVATQA GSLLHSLVLR AQELVLQLLA
	RARILGCLQE PTKSRPDQPA AFGLLCRMAD QTFISIVDWA RRCMVFKELE VADQMTLLQN
	AGYLYPAFPG RAIKSEYPEP YASPPQPGLP YGYPEPFSGG PNVPELILQL LQLEPDEDQV
	ETGPPMGVPP PPPPAPDYVL PPSLHGPEPK GLAAGPPAGP LGDFGAPALP MAVPGAHGPL
	QRKRCPFCRF QKCLTVGMRL EAVRADRMRG GRNKFGPMYK RDRALKQQKK AQIRANGFKL
Sequence:	MDYSYDEDLD ELCPVCGDKV SGYHYGLLTC ESCKGFFKRT VQNNKHYTCT ESQSCKIDKT

Characteristics: Ke

Key Benefits:

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- · Made in Germany from design to production by highly experienced protein experts.
- Protein expressed with ALICE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require posttranslational modifications.
- During lysate production, the cell wall and other cellular components that are not required for
 protein production are removed, leaving only the protein production machinery and the
 mitochondria to drive the reaction. During our lysate completion steps, the additional
 components needed for protein production (amino acids, cofactors, etc.) are added to
 produce something that functions like a cell, but without the constraints of a living system all that's needed is the DNA that codes for the desired protein!

Concentration:

- 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.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):

- 1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. 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.

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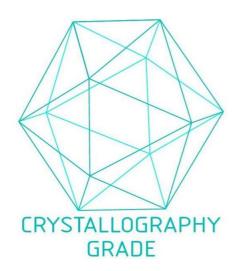
Purity:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.	
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)	
Grade:	Crystallography grade	
Target Details		
Target:	NR5A1	
Alternative Name:	NR5A1 (NR5A1 Products)	
Background:	 Steroidogenic factor 1 (SF-1) (STF-1) (hSF-1) (Adrenal 4-binding protein) (Fushi tarazu factor homolog 1) (Nuclear receptor subfamily 5 group A member 1) (Steroid hormone receptor Ad4BP),FUNCTION: Transcriptional activator. Essential for sexual differentiation and formation of the primary steroidogenic tissues (PubMed:27378692). 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 (PubMed:27378692). The SFPQ-NONO-NR5A1 complex binds to the CYP17 promoter and regulates basal and cAMP-dependent transcriptional activity. Binds phosphatidylcholine (By similarity). Binds phospholipids with a phosphatidylinositol (PI) headgroup, in particular PI(3,4)P2 and PI(3,4,5)P3. Activated by the phosphorylation of NR5A1 by HIPK3 leading to increased steroidogenic gene expression upon cAMP signaling pathway stimulation. {ECO:0000250 UniProtKB:P33242, ECO:0000269 PubMed:17210646, ECO:0000269 PubMed:27378692, ECO:0000269 PubMed:28459839}. 	
Molecular Weight:	51.6 kDa	
UniProt:	Q13285	
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 guarantee though.	
Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v This contains all the protein expression machinery needed to produce	

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	even the most difficult-to-express proteins, including those that require post-translational
	modifications.
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	protein production are removed, leaving only the protein production machinery and the
	mitochondria to drive the reaction. During our lysate completion steps, the additional
	components needed for protein production (amino acids, cofactors, etc.) are added to produce
	something that functions like a cell, but without the constraints of a living system - all that's
	needed is the DNA that codes for the desired protein!
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request,
	please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.

Images

Expiry Date:



Unlimited (if stored properly)

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