

Datasheet for ABIN3095119 RORC Protein (AA 1-518) (Strep Tag)



Overview

Quantity:	250 µg
Target:	RORC
Protein Characteristics:	AA 1-518
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RORC protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	MDRAPQRQHR ASRELLAAKK THTSQIEVIP CKICGDKSSG IHYGVITCEG CKGFFRRSQR
	CNAAYSCTRQ QNCPIDRTSR NRCQHCRLQK CLALGMSRDA VKFGRMSKKQ RDSLHAEVQK
	QLQQRQQQQQ EPVVKTPPAG AQGADTLTYT LGLPDGQLPL GSSPDLPEAS ACPPGLLKAS
	GSGPSYSNNL AKAGLNGASC HLEYSPERGK AEGRESFYST GSQLTPDRCG LRFEEHRHPG
	LGELGQGPDS YGSPSFRSTP EAPYASLTEI EHLVQSVCKS YRETCQLRLE DLLRQRSNIF
	SREEVTGYQR KSMWEMWERC AHHLTEAIQY VVEFAKRLSG FMELCQNDQI VLLKAGAMEV
	VLVRMCRAYN ADNRTVFFEG KYGGMELFRA LGCSELISSI FDFSHSLSAL HFSEDEIALY
	TALVLINAHR PGLQEKRKVE QLQYNLELAF HHHLCKTHRQ SILAKLPPKG KLRSLCSQHV
	ERLQIFQHLH PIVVQAAFPP LYKELFSTET ESPVGLSK
	Sequence without tag. The proposed Strep-Tag is based on experience s with the expression
	system, a different complexity of the protein could make another tag necessary. In case you

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	have a special request, please contact us.
Characteristics:	Key Benefits:
	 Made in Germany - from design to production - by highly experienced protein experts. Protein expressed with ALiCE® and purified in one-step affinity chromatography 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 try to ensure that you receive soluble 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 post-translational 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 against its specific reference buffer. We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.
Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

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Target Details

Target:	RORC
Alternative Name:	RORC (RORC Products)
Background:	Nuclear receptor ROR-gamma (Nuclear receptor RZR-gamma) (Nuclear receptor subfamily 1
	group F member 3) (RAR-related orphan receptor C) (Retinoid-related orphan receptor-
	gamma),FUNCTION: Nuclear receptor that binds DNA as a monomer to ROR response
	elements (RORE) containing a single core motif half-site 5'-AGGTCA-3' preceded by a short A-T
	rich sequence. Key regulator of cellular differentiation, immunity, peripheral circadian rhythm a
	well as lipid, steroid, xenobiotics and glucose metabolism (PubMed:19381306,
	PubMed:19965867, PubMed:22789990, PubMed:26160376, PubMed:20203100). Considered t
	have intrinsic transcriptional activity, have some natural ligands like oxysterols that act as
	agonists (25-hydroxycholesterol) or inverse agonists (7-oxygenated sterols), enhancing or
	repressing the transcriptional activity, respectively (PubMed:19965867, PubMed:22789990).
	Recruits distinct combinations of cofactors to target gene regulatory regions to modulate their
	transcriptional expression, depending on the tissue, time and promoter contexts. Regulates the
	circadian expression of clock genes such as CRY1, BMAL1 and NR1D1 in peripheral tissues ar
	in a tissue-selective manner. Competes with NR1D1 for binding to their shared DNA response
	element on some clock genes such as BMAL1, CRY1 and NR1D1 itself, resulting in NR1D1-
	mediated repression or RORC-mediated activation of the expression, leading to the circadian
	pattern of clock genes expression. Therefore influences the period length and stability of the
	clock. Involved in the regulation of the rhythmic expression of genes involved in glucose and
	lipid metabolism, including PLIN2 and AVPR1A (PubMed:19965867). Negative regulator of
	adipocyte differentiation through the regulation of early phase genes expression, such as
	MMP3. Controls adipogenesis as well as adipocyte size and modulates insulin sensitivity in
	obesity. In liver, has specific and redundant functions with RORA as positive or negative
	modulator of expression of genes encoding phase I and Phase II proteins involved in the
	metabolism of lipids, steroids and xenobiotics, such as SULT1E1. Also plays a role in the
	regulation of hepatocyte glucose metabolism through the regulation of G6PC1 and PCK1
	(PubMed:19965867). Regulates the rhythmic expression of PROX1 and promotes its nuclear
	localization (PubMed:19381306, PubMed:19965867, PubMed:22789990, PubMed:26160376,
	PubMed:20203100). Plays an indispensable role in the induction of IFN-gamma dependent an
	mycobacterial systemic immunity (PubMed:26160376). {ECO:0000250 UniProtKB:P51450,
	ECO:0000269 PubMed:19381306, ECO:0000269 PubMed:19965867,
	EC0:0000269 PubMed:20203100, EC0:0000269 PubMed:22789990,
	EC0:0000269 PubMed:26160376}., FUNCTION: [Isoform 2]: Essential for thymopoiesis and the
	development of several secondary lymphoid tissues, including lymph nodes and Peyer's

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	patches. Required for the generation of LTi (lymphoid tissue inducer) cells. Regulates
	thymocyte survival through DNA-binding on ROREs of target gene promoter regions and
	recruitment of coactivaros via the AF-2. Also plays a key role, downstream of IL6 and TGFB and
	synergistically with RORA, for lineage specification of uncommitted CD4(+) T-helper (T(H)) cells
	into T(H)17 cells, antagonizing the T(H)1 program. Probably regulates IL17 and IL17F
	expression on T(H) by binding to the essential enhancer conserved non-coding sequence 2
	(CNS2) in the IL17-IL17F locus. May also play a role in the pre-TCR activation cascade leading
	to the maturation of alpha/beta T-cells and may participate in the regulation of DNA
	accessibility in the TCR-J(alpha) locus. {ECO:0000269 PubMed:21499262}.
Molecular Weight:	58.2 kDa
UniProt:	P51449
Pathways:	Nuclear Receptor Transcription Pathway, Steroid Hormone Mediated 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
	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
	even the most difficult-to-express proteins, including those that require post-translational
	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!
Restrictions:	For Research Use only
Handling	
Format:	Liquid
	The buffer composition is at the discretion of the manufacturer.
Buffer:	

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Handling

Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months