

Datasheet for ABIN3136111 CYP26B1 Protein (AA 1-512) (Strep Tag)



Overview

Quantity:	250 μg
Target:	CYP26B1
Protein Characteristics:	AA 1-512
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CYP26B1 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	MLFEGLELVS ALATLAACLV SVTLLLAVSQ QLWQLRWAAT RDKSCKLPIP KGSMGFPLIG
	ETGHWLLQGS GFQSSRREKY GNVFKTHLLG RPLIRVTGAE NVRKILLGEH QLVSTEWPRS
	ARVLLGPNTV ANSIGDIHRN KRKVFSKIFS HEALESYLPK IQLVIQDTLR AWSSQPEAIN
	VYQEAQRLTF RMAVRVLLGF SIPEEDLGHL FEVYQQFVEN VFSLPVDLPF SGYRRGIQAR
	QILQKGLEKA IREKLQCTQG KDYSDALDIL IESSKEHGKE MTMQELKDGT LELIFAAYAT
	TASASTSLIM QLLKHPAVLE KLREELRAQG LLHGGGCPCE GTLRLDTLSS LRYLDCVIKE
	VMRLFTPVSG GYRTVLQTFE LDGFQIPKGW SVMYSIRDTH DTAPVFKDVN VFDPDRFSQA
	RSEDKDGRFH YLPFGGGVRT CLGKHLAKLF LKVLAVELAS TSRFELATRT FPRITLVPVL
	HPVDGLSVKF FGLDSNQNEI LPETEAMLSA TV
	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:	CYP26B1
Alternative Name:	Cyp26b1 (CYP26B1 Products)
Background:	Cytochrome P450 26B1 (EC 1.14.13) (Cytochrome P450 retinoic acid-inactivating 2)
	(Cytochrome P450RAI-2),FUNCTION: A cytochrome P450 monooxygenase involved in the
	metabolism of retinoates (RAs), the active metabolites of vitamin A, and critical signaling
	molecules in animals (Probable). RAs exist as at least four different isomers: all-trans-RA
	(atRA), 9-cis-RA, 13-cis-RA, and 9,13-dicis-RA, where atRA is considered to be the biologically
	active isomer, although 9-cis-RA and 13-cis-RA also have activity (By similarity). Catalyzes the
	hydroxylation of atRA primarily at C-4 and C-18, thereby contributing to the regulation of atRA
	homeostasis and signaling (Probable). Hydroxylation of atRA limits its biological activity and
	initiates a degradative process leading to its eventual elimination (By similarity). Involved in the
	convertion of atRA to all-trans-4-oxo-RA (Probable). Can oxidize all-trans-13,14-dihydroretinoate
	(DRA) to metabolites which could include all-trans-4-oxo-DRA, all-trans-4-hydroxy-DRA, all-trans
	5,8-epoxy-DRA, and all-trans-18-hydroxy-DRA (Probable). Shows preference for the following
	substrates: atRA > 9-cis-RA > 13-cis-RA (By similarity). Plays a central role in germ cell
	development: acts by degrading RAs in the developing testis, preventing STRA8 expression,
	thereby leading to delay of meiosis (PubMed:16461896, PubMed:16574820,
	PubMed:19838304). Required for the maintenance of the undifferentiated state of male germ
	cells during embryonic development in Sertoli cells, inducing arrest in G0 phase of the cell cycle
	and preventing meiotic entry (PubMed:16574820, PubMed:16461896, PubMed:19838304).
	Plays a role in skeletal development, both at the level of patterning and in the ossification of
	bone and the establishment of some synovial joints (PubMed:22019272). Essential for
	postnatal survival (PubMed:16461896, PubMed:16574820, PubMed:19838304).
	{ECO:0000250 UniProtKB:Q9NR63, ECO:0000269 PubMed:16461896,
	ECO:0000269 PubMed:16574820, ECO:0000269 PubMed:19838304,
	EC0:0000269 PubMed:22019272, EC0:0000305 PubMed:15911617}., FUNCTION: Has also a
	significant activity in oxidation of tazarotenic acid and may therefore metabolize that xenobioti
	in vivo. {ECO:0000250 UniProtKB:Q9NR63}.
Molecular Weight:	57.4 kDa
UniProt:	Q811W2
Pathways:	Retinoic Acid Receptor Signaling Pathway, Regulation of Muscle Cell Differentiation,

Monocarboxylic Acid Catabolic Process

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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
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months