Datasheet for ABIN3115802 CYP26C1 Protein (AA 1-522) (Strep Tag)

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Overview

Quantity:	1 mg
Target:	CYP26C1
Protein Characteristics:	AA 1-522
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CYP26C1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

	system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.
	Sequence without tag. The proposed Strep-Tag is based on experience s with the expression
	RWELATPAFP AMQTVPIVHP VDGLRLFFHP LTPSVAGNGL CL
	YRSPPEGFDP ERFGAAREDS RGASSRFHYI PFGGGARSCL GQELAQAVLQ LLAVELVRTA
	AALGRLRYVD CVVKEVLRLL PPVSGGYRTA LRTFELDGYQ IPKGWSVMYS IRDTHETAAV
	TASASTSLVL LLLQHPAAIA KIREELVAQG LGRACGCAPG AAGGSEGPPP DCGCEPDLSL
	DQLHRHLEGA ISEKLHEDKA AEPGDALDLI IHSARELGHE PSMQELKESA VELLFAAFFT
	VYDASKALTF RMAARILLGL RLDEAQCATL ARTFEQLVEN LFSLPLDVPF SGLRKGIRAR
	AHILLGSHTL LGAVGEPHRR RRKVLARVFS RAALERYVPR LQGALRHEVR SWCAAGGPVS
	ETLHWLVQGS RFHSSRRERY GTVFKTHLLG RPVIRVSGAE NVRTILLGEH RLVRSQWPQS
Sequence:	MFPWGLSCLS VLGAAGTALL CAGLLLSLAQ HLWTLRWMLS RDRASTLPLP KGSMGWPFFG

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Product Details

Characteristics:

Key Benefits:

- 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.
- 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

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Product Details	
	Western blot.
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:	CYP26C1
Alternative Name:	CYP26C1 (CYP26C1 Products)
Background:	Cytochrome P450 26C1 (CYP26C1) (EC 1.14.14.1),FUNCTION: A cytochrome P450
	monooxygenase involved in the metabolism of retinoates (RAs), the active metabolites of
	vitamin A, and critical signaling molecules in animals (PubMed:14532297). RAs exist as at leas
	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 (Probable). Catalyzes the oxidation of atRA primarily at C-4 (PubMed:14532297).
	Oxidation of atRA limits its biological activity and initiates a degradative process leading to its
	eventual elimination, thereby contributes to the regulation of atRA homeostasis and signaling
	(Probable). Able to metabolize other RAs such as 9-cis with high efficiency
	(PubMed:14532297). 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 (By similarity). Shares sequence similarity with other CYP26 family
	members, but has higher affinity to 9-cis-RA and is much less sensitive to the inhibitory effects
	of ketoconazole (PubMed:14532297). In cooperation with Cyp26a1, contributes to the CNS
	patterning and the development of regions of higher visual acuity (By similarity).
	{EC0:0000250 UniProtKB:B2RXA7, EC0:0000269 PubMed:14532297,
	ECO:0000305 PubMed:14532297}.
Molecular Weight:	57.1 kDa
UniProt:	Q6V0L0
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.

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Application Details 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. 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.
Expiry Date:	Unlimited (if stored properly)