

Datasheet for ABIN3078188

CYP2S1 Protein (AA 1-504) (Strep Tag)



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Quantity:	250 μg
Target:	CYP2S1
Protein Characteristics:	AA 1-504
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CYP2S1 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

- PP	
Product Details	
Brand:	AliCE®
Sequence:	MEATGTWALL LALALLLLLT LALSGTRARG HLPPGPTPLP LLGNLLQLRP GALYSGLMRL
	SKKYGPVFTI YLGPWRPVVV LVGQEAVREA LGGQAEEFSG RGTVAMLEGT FDGHGVFFSN
	GERWRQLRKF TMLALRDLGM GKREGEELIQ AEARCLVETF QGTEGRPFDP SLLLAQATSN
	VVCSLLFGLR FSYEDKEFQA VVRAAGGTLL GVSSQGGQTY EMFSWFLRPL PGPHKQLLHH
	VSTLAAFTVR QVQQHQGNLD ASGPARDLVD AFLLKMAQEE QNPGTEFTNK NMLMTVIYLL
	FAGTMTVSTT VGYTLLLLMK YPHVQKWVRE ELNRELGAGQ APSLGDRTRL PYTDAVLHEA
	QRLLALVPMG IPRTLMRTTR FRGYTLPQGT EVFPLLGSIL HDPNIFKHPE EFNPDRFLDA
	DGRFRKHEAF LPFSLGKRVC LGEGLAKAEL FLFFTTILQA FSLESPCPPD TLSLKPTVSG
	LFNIPPAFQL QVRPTDLHST TQTR
	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

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 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 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

Target Details

Target:	CYP2S1
Alternative Name:	CYP2S1 (CYP2S1 Products)
Background:	Cytochrome P450 2S1 (EC 1.14.14) (CYPIIS1) (Hydroperoxy icosatetraenoate dehydratase)
	(EC 4.2.1.152) (Thromboxane-A synthase) (EC 5.3.99.5),FUNCTION: A cytochrome P450
	monooxygenase involved in the metabolism of retinoids and eicosanoids (PubMed:12711469,
	PubMed:21068195). In epidermis, may contribute to the oxidative metabolism of all-trans-
	retinoic acid. For this activity, uses molecular oxygen inserting one oxygen atom into a
	substrate, and reducing the second into a water molecule, with two electrons provided by
	NADPH via cytochrome P450 reductase (NADPHhemoprotein reductase)
	(PubMed:12711469). Additionally, displays peroxidase and isomerase activities toward various
	oxygenated eicosanoids such as prostaglandin H2 (PGH2) and hydroperoxyeicosatetraenoates
	(HPETEs) (PubMed:21068195). Independently of cytochrome P450 reductase, NADPH, and O2
	catalyzes the breakdown of PGH2 to hydroxyheptadecatrienoic acid (HHT) and
	malondialdehyde (MDA), which is known to act as a mediator of DNA damage
	(PubMed:21068195). {ECO:0000269 PubMed:12711469, ECO:0000269 PubMed:21068195}.
Molecular Weight:	55.8 kDa
UniProt:	Q96SQ9
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