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CYP2S1 Protein (AA 1-501) (Strep Tag)



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Overview

Quantity:	1 mg
Target:	CYP2S1
Protein Characteristics:	AA 1-501
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CYP2S1 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:

MEAASTWALL LALLLLLLL SLTLFRTPAR GYLPPGPTPL PLLGNLLQLR PGALYSGLLR LSKKYGPVFT VYLGPWRRVV VLVGHDAVRE ALGGQAEEFS GRGTLATLDK TFDGHGVFFA NGERWKQLRK FTLLALRDLG MGKREGEELI QAEVQSLVEA FQKTEGRPFN PSMLLAQATS NVVCSLVFGI RLPYDDKEFQ AVIQAASGTL LGISSPWGQA YEMFSWLLQP LPGPHTQLQH HLGTLAAFTI QQVQKHQGRF QTSGPARDVV DAFLLKMAQE KQDPGTEFTE KNLLMTVTYL LFAGTMTIGA TIRYALLLLL RYPQVQQRVR EELIQELGPG RAPSLSDRVR LPYTDAVLHE AQRLLALVPM GMPHTITRTT CFRGYTLPKG TEVFPLIGSI LHDPAVFQNP GEFHPGRFLD EDGRLRKHEA FLPYSLGKRV CLGEGLARAE LWLFFTSILQ AFSLETPCPP GDLSLKPAIS GLFNIPPDFQ LRVWPTGDQS R

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 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

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)
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. In epidermis, may contribute to the oxidative metabolism of all-trans-retinoic acid. For this activity, uses molecula 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 (NADPH-hemoprotein reductase). Additionally, displays peroxidase and isomerase activities toward various oxygenated eicosanoids such as prostaglandin H2 (PGH2) and hydroperoxyeicosatetraenoates (HPETEs). Independently of cytochrome P450 reductase, NADPH, and O2, catalyzes the breakdown of PGH2 to hydroxyheptadecatrienoic acid (HHT) an malondialdehyde (MDA), which is known to act as a mediator of DNA damage. {ECO:0000250 UniProtKB:Q96SQ9}.
Molecular Weight:	55.6 kDa
UniProt:	Q9DBX6
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

Application Details

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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)