

## Datasheet for ABIN3133268 CYP2A5 Protein (AA 1-494) (Strep Tag)



Overview

Quantity:	1 mg
Target:	CYP2A5
Protein Characteristics:	AA 1-494
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CYP2A5 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Brand:	AliCE®
Sequence:	MLTSGLLLVA AVAFLSVLVL MSVWKQRKLS GKLPPGPTPL PFIGNFLQLN TEQMYNSLMK
	ISQRYGPVFT IYLGPRRIVV LCGQEAVKEA LVDQAEEFSG RGEQATFDWL FKGYGVVFSS
	GERAKQLRRF SIATLRDFGV GKRGIEERIQ EEAGFLIDSF RKTNGAFIDP TFYLSRTVSN
	VISSIVFGDR FDYEDKEFLS LLRMMLGSFQ FTATSMGQLY EMFSSVMKHL PGPQQQAFKE
	LQGLEDFITK KVEHNQRTLD PNSPRDFIDS FLIRMLEEKK NPNTEFYMKN LVLTTLNLFF
	AGTETVSTTL RYGFLLLMKH PDIEAKVHEE IDRVIGRNRQ PKYEDRMKMP YTEAVIHEIQ
	RFADMIPMGL ARRVTKDTKF RDFLLPKGTE VFPMLGSVLK DPKFFSNPKD FNPKHFLDDK
	GQFKKNDAFV PFSIGKRYCF GEGLARMELF LFLTNIMQNF HFKSTQAPQD IDVSPRLVGF
	ATIPPTYTMS FLSR
	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:
	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Protein expressed with ALiCE® and purified in one-step affinity chromatography</li> <li>These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).</li> <li>State-of-the-art algorithm used for plasmid design (Gene synthesis).</li> </ul>
	This protein is a <b>made-to-order protein</b> 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:
	<ul> <li>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.</li> <li>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!</li> </ul>
	Concentration:
	<ul> <li>The concentration of our recombinant proteins is measured using the absorbance at 280nm</li> <li>The protein's absorbance will be measured against its specific reference buffer.</li> <li>We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.</li> </ul>
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:	CYP2A5
Alternative Name:	Cyp2a5
Background:	Cytochrome P450 2A5 (EC 1.14.14.1) (CYPIIA5) (Coumarin 7-hydroxylase) (Cytochrome P450- 15-COH) (Cytochrome P450-IIA3.2),FUNCTION: Exhibits a high coumarin 7-hydroxylase activity.
Molecular Weight:	56.7 kDa
UniProt:	P20852
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: Handling	For Research Use only
Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol <b>Might differ depending on protein.</b>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months

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