

Datasheet for ABIN7546716 CYP3A5 Protein (AA 1-502) (His tag)



io to i roduct page

Overview

Quantity:	1 mg
Target:	СҮРЗА5
Protein Characteristics:	AA 1-502
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CYP3A5 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant CYP3A5 Protein expressed in mammalian cells.
Sequence:	MDLIPNLAVE TWLLLAVSLV LLYLYGTRTH GLFKRLGIPG PTPLPLLGNV LSYRQGLWKF
	DTECYKKYGK MWGTYEGQLP VLAITDPDVI RTVLVKECYS VFTNRRSLGP VGFMKSAISL
	AEDEEWKRIR SLLSPTFTSG KLKEMFPIIA QYGDVLVRNL RREAEKGKPV TLKDIFGAYS
	MDVITGTSFG VNIDSLNNPQ DPFVESTKKF LKFGFLDPLF LSIILFPFLT PVFEALNVSL
	FPKDTINFLS KSVNRMKKSR LNDKQKHRLD FLQLMIDSQN SKETESHKAL SDLELAAQSI
	IFIFAGYETT SSVLSFTLYE LATHPDVQQK LQKEIDAVLP NKAPPTYDAV VQMEYLDMVV
	NETLRLFPVA IRLERTCKKD VEINGVFIPK GSMVVIPTYA LHHDPKYWTE PEEFRPERFS
	KKKDSIDPYI YTPFGTGPRN CIGMRFALMN MKLALIRVLQ NFSFKPCKET QIPLKLDTQG
	LLQPEKPIVL KVDSRDGTLS GE Sequence without tag. The proposed Purification-Tag is
	based on experiences 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.
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/3 | Product datasheet for ABIN7546716 | 03/28/2025 | Copyright antibodies-online. All rights reserved.

Product Details

	isoform, please contact us regarding an individual offer.
Characteristics:	 Key Benefits: Made to order protein - from design to production - by highly experienced protein experts. Protein expressed in mammalian cells and purified in one-step affinity chromatography The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. 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.
	If you are not interested in a full length protein, please contact us for individual protein fragments.
	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.
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	СҮРЗА5
Alternative Name:	CYP3A5 (CYP3A5 Products)
Background:	Cytochrome P450 3A5 (EC 1.14.14.1) (CYPIIIA5) (Cytochrome P450-PCN3),FUNCTION: A
	cytochrome P450 monooxygenase involved in the metabolism of steroid hormones and
	vitamins (PubMed:2732228, PubMed:10681376, PubMed:11093772, PubMed:12865317).
	Mechanistically, 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). Catalyzes the hydroxylation of
	carbon-hydrogen bonds (PubMed:12865317, PubMed:2732228, PubMed:10681376,
	PubMed:11093772). Exhibits high catalytic activity for the formation of catechol estrogens
	from 17beta-estradiol (E2) and estrone (E1), namely 2-hydroxy E1 and E2 (PubMed:12865317).
	Catalyzes 6beta-hydroxylation of the steroid hormones testosterone, progesterone, and
	androstenedione (PubMed:2732228). Catalyzes the oxidative conversion of all-trans-retinol to
	all-trans-retinal, a rate-limiting step for the biosynthesis of all-trans-retinoic acid (atRA)

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/3 | Product datasheet for ABIN7546716 | 03/28/2025 | Copyright antibodies-online. All rights reserved.

	(PubMed:10681376). Further metabolizes all trans-retinoic acid (atRA) to 4-hydroxyretinoate and may play a role in hepatic atRA clearance (PubMed:11093772). Also involved in the oxidative metabolism of xenobiotics, including calcium channel blocking drug nifedipine and immunosuppressive drug cyclosporine (PubMed:2732228). {ECO:0000269 PubMed:10681376, ECO:0000269 PubMed:11093772, ECO:0000269 PubMed:12865317, ECO:0000269 PubMed:2732228}.
Molecular Weight:	57.1 kDa
UniProt:	P20815
Pathways:	Steroid Hormone Biosynthesis
Application Details	
Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for
	functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months