Datasheet for ABIN7546656

CYP26A1 Protein (AA 1-497) (His tag)

Go to Product page

Overview

Quantity:	1 mg
Target:	CYP26A1
Protein Characteristics:	AA 1-497
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CYP26A1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant CYP26A1 Protein expressed in mammalian cells.
Sequence:	MGLPALLASA LCTFVLPLLL FLAAIKLWDL YCVSGRDRSC ALPLPPGTMG FPFFGETLQM VLQRRKFLQM KRRKYGFIYK THLFGRPTVR VMGADNVRRI LLGEHRLVSV HWPASVRTIL GSGCLSNLHD SSHKQRKKVI MRAFSREALE CYVPVITEEV GSSLEQWLSC GERGLLVYPE VKRLMFRIAM RILLGCEPQL AGDGDSEQQL VEAFEEMTRN LFSLPIDVPF SGLYRGMKAR NLIHARIEQN IRAKICGLRA SEAGQGCKDA LQLLIEHSWE RGERLDMQAL KQSSTELLFG GHETTASAAT SLITYLGLYP HVLQKVREEL KSKGLLCKSN QDNKLDMEIL EQLKYIGCVI KETLRLNPPV PGGFRVALKT FELNGYQIPK GWNVIYSICD THDVAEIFTN KEEFNPDRFM LPHPEDASRF SFIPFGGGLR SCVGKEFAKI LLKIFTVELA RHCDWQLLNG PPTMKTSPTV YPVDNLPARF THFHGEI **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

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:	CYP26A1
Alternative Name:	CYP26A1 (CYP26A1 Products)
Background:	Cytochrome P450 26A1 (CYP26A1) (EC 1.14.13.-) (Cytochrome P450 retinoic acid-inactivating 1) (Cytochrome P450RAI) (hP450RAI) (Retinoic acid 4-hydroxylase) (Retinoic acid-metabolizing cytochrome),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:22020119, PubMed:9228017, PubMed:9716180). RAs exist as at least 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 hydroxylation of atRA primarily at C-4 and C-18, thereby contributing to the regulation of atRA homeostasis and signaling (PubMed:22020119, PubMed:9228017, PubMed:9716180). Hydroxylation of atRA limits its biological activity and initiates a degradative process leading to its eventual elimination (Probable). Involved in the convertion of atRA to all-trans-4-oxo-RA. Able to metabolize other RAs such as 9-cis, 13-cis and 9,13-di-cis RA (By

Target Details

	similarity) (PubMed:9228017). 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). May play a role in the oxidative metabolism of xenobiotics such as tazarotenic acid (PubMed:26937021). {ECO:0000250|UniProtKB:O55127, ECO:0000269|PubMed:22020119, ECO:0000269|PubMed:26937021, ECO:0000269|PubMed:9228017, ECO:0000269|PubMed:9716180, ECO:0000305|PubMed:22020119, ECO:0000305|PubMed:9228017}.
Molecular Weight:	56.2 kDa
UniProt:	O43174
Pathways:	Retinoic Acid Receptor Signaling Pathway, Monocarboxylic Acid Catabolic Process

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