

Datasheet for ABIN7546658
CYP4X1 Protein (AA 1-509) (His tag)



[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	CYP4X1
Protein Characteristics:	AA 1-509
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CYP4X1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant CYP4X1 Protein expressed in mammalian cells.
Sequence:	<p>MEFSWLETRW ARPFYLAFVF CLALGLLQAI KLYLRRQRL RDLRPFAPP THWFLGHQKF IQDDNMEKLE EIIEKYPRAF PFWIGPFQAF FCYDPDYAK TLLSRTDPKS QYLQKFSPP LGKGLAALDG PKWFQHRLL TPGFHFNLK AYIEVMAHSV KMMLDKWEKI CSTQDTSVEV YEHINSMSLD IIMKCAFSKE TNCQTNSTHD PYAKAIFELS KIIFHRLYSL LYHSDIIFKL SPQGYRFQKL SRVLNQYTDI IQERKKSLLQ AGVKQDNTPK RKYQDFLDIV LSAKDESGSS FSDIDVHSEV STFLLAGHDT LAASISWILY CLALNPEHQE RCREEVRGIL GDGSSITWDQ LGEMSYTTMC IKETCRLIPA VPSISRDLK PLTFPDGCTL PAGITVLSI WGLHHNPAVW KNPKVFDPLR FSQENSQRH PYAYLPFSAG SRNCIGQEFA MIELKVITIAL ILLHFRVTPD PTRPLTFPNH FILKPKNGMY LHLKLLSEC 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.</p>

Product Details

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different 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: CYP4X1

Alternative Name: CYP4X1 ([CYP4X1 Products](#))

Background: Cytochrome P450 4X1 (EC 1.14.14.-) (CYPIVX1),FUNCTION: A cytochrome P450 monooxygenase that selectively catalyzes the epoxidation of the last double bond of the arachidonoyl moiety of anandamide, potentially modulating endocannabinoid signaling. Has no hydroxylase activity toward various fatty acids, steroids and prostaglandins. 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 (CPR, NADPH-ferrihemoprotein reductase). {ECO:0000269|PubMed:18549450}.

Molecular Weight: 58.9 kDa

UniProt: [Q8N118](#)

Pathways: [Regulation of Lipid Metabolism by PPARalpha](#)

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