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Datasheet for ABIN7546738

CYP8B1 Protein (AA 1-501) (His tag)

Overview

Quantity:	1 mg
Target:	CYP8B1
Protein Characteristics:	AA 1-501
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CYP8B1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat CYP8B1 Protein expressed in mammalien cells.
Sequence:	MVLWGPVLGA LLVVIAGYLC LPGMLRQRRP WEPPLDKGTV PWLGHAMAFR KNMFEFLKRM RTKHGDVFTV QLGGQYFTFV MDPLSFGSIL KDTQRKLDVG QYAKKLVLKV FGYRSVQGDH EMIHSASTKH LRGDGLKDLN ETMLDSLSFV MLTSKGWSLD ASCWHEDSLF RFCYYILFTA GYLSLFGYTK DKEQDLLQAG ELFMEFRKFD LLFPRFVYSL LWPREWLEVG RLQRLFHKML SVSHSQEKEG ISNWLGNMLQ FLREQGVPSA MQDKFNFMMML WASQGNTGPT SFWALLYLLK HPEAIRAVRE EATQVLGEAR LETKQSFQAFK LGALQHTPV L DSVVEETLRL RAAPTLLRLV HEDYTLKMSS GQEYLFRRHGD ILALFPYLSV HMDPDIHPEP TVFKYDRFLN PNGSRKVDFF KTGKKIHHYT MPWGSGVSIC PGRFFALSEV KLFILLMVTH FDLELVDPDT PLPHVDPQRW GFGTMQPSHD VRFYRLHPT E 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.

Product Details

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, Western Blot

Grade:

custom-made

Target Details

Target:

CYP8B1

Alternative Name:

CYP8B1 ([CYP8B1 Products](#))

Background:

7-alpha-hydroxycholest-4-en-3-one 12-alpha-hydroxylase (EC 1.14.14.139) (7-alpha-hydroxy-4-cholesten-3-one 12-alpha-hydroxylase) (CYPVIII B1) (Cytochrome P450 8B1) (Sterol 12-alpha-hydroxylase),FUNCTION: A cytochrome P450 monooxygenase involved in primary bile acid biosynthesis. Catalyzes the 12alpha-hydroxylation of 7alpha-hydroxy-4-cholesten-3-one, an intermediate metabolite in cholic acid biosynthesis (PubMed:10051404). Controls biliary balance of cholic acid and chenodeoxycholic acid, ultimately regulating the intestinal absorption of dietary lipids (By similarity). 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-hemoprotein reductase) (By similarity). {ECO:0000250|UniProtKB:O02766, ECO:0000250|UniProtKB:O88962, ECO:0000269|PubMed:10051404}.

Molecular Weight:

58.1 kDa

UniProt:

[Q9UNU6](#)

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.

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
