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Datasheet for ABIN7546670

CYP2C8 Protein (AA 1-490) (His tag)

Overview

Quantity:	1 mg
Target:	CYP2C8
Protein Characteristics:	AA 1-490
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CYP2C8 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant CYP2C8 Protein expressed in mammalian cells.
Sequence:	MEPFVVLVLC LSFMLLFSW RQSCRRRRLP PGPTPLPIIG NMLQIDVKDI CKSFTNFSKV YGPVFTVYFG MNPIVVFHGY EAVKEALIDN GEEFSGRGNS PISQRITKGL GISSNGKRW KEIRRFSLTT LRNFGMGKRS IEDRVQEEAH CLVEELRRTK ASPCDPTFIL GCAPCNVICS VVFQKRFDYK DQNFLTLMKR FNENFRILNS PWIQVCNFP LLIDCFPGTH NKVLKNNVALT RSYIREKVKE HQASLDVNNP RDFIDCFLIK MEQEKDNQKS EFNIENLVGT VADLFVAGTE TTSTTLRYGL LLLLKHPEVT AKVQEEIDHV IGRHRSPCMQ DRSHMPYTDA VVHEIQRYSD LVPTGVPHAV TTDTKFRNYL IPKGTTIMAL LTSVLHDDKE FPNPNIFDPG HFLDKNGNFK KSDYFMPFSA GKRICAGEGL ARMELFLFLT TILQNFNLKS VDDLKLNLT AVTKGIVSLP PSYQICFIPV 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:

CYP2C8

Alternative Name:

CYP2C8 ([CYP2C8 Products](#))

Background:

Cytochrome P450 2C8 (EC 1.14.14.1) (CYP11C8) (Cytochrome P450 IIC2) (Cytochrome P450 MP-12) (Cytochrome P450 MP-20) (Cytochrome P450 form 1) (S-mephenytoin 4-hydroxylase),FUNCTION: A cytochrome P450 monooxygenase involved in the metabolism of various endogenous substrates, including fatty acids, steroid hormones and vitamins (PubMed:7574697, PubMed:11093772, PubMed:14559847, PubMed:15766564, PubMed:19965576). 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 (NADPH-hemoprotein reductase) (PubMed:7574697, PubMed:11093772, PubMed:14559847, PubMed:15766564, PubMed:19965576). Primarily catalyzes the epoxidation of double bonds of polyunsaturated fatty acids (PUFA) with a preference for the last double bond (PubMed:7574697, PubMed:15766564, PubMed:19965576). Catalyzes the hydroxylation of carbon-hydrogen bonds. Metabolizes all trans-retinoic acid

Target Details

toward its 4-hydroxylated form (PubMed:11093772). Displays 16-alpha hydroxylase activity toward estrogen steroid hormones, 17beta-estradiol (E2) and estrone (E1) (PubMed:14559847). Plays a role in the oxidative metabolism of xenobiotics. It is the principal enzyme responsible for the metabolism of the anti-cancer drug paclitaxel (taxol) (PubMed:26427316).

{ECO:0000269|PubMed:11093772, ECO:0000269|PubMed:14559847, ECO:0000269|PubMed:15766564, ECO:0000269|PubMed:19965576, ECO:0000269|PubMed:26427316, ECO:0000269|PubMed:7574697}.

Molecular Weight: 55.8 kDa

UniProt: [P10632](#)

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