

Datasheet for ABIN7546714
CYP2B6 Protein (AA 1-491) (His tag)



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Overview

Quantity:	1 mg
Target:	CYP2B6
Protein Characteristics:	AA 1-491
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CYP2B6 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant CYP2B6 Protein expressed in mammalian cells.
Sequence:	MELSVLLFLA LLTGLLLLLLV QRHPNTHDRL PPGPRPLPLL GNLLQMDDRRG LLKSFLRFRE KYGDVFTVHL GPRPVVMLCG VEAIREALVD KAEAFSGRGK IAMVDPFFRG YGVIFANGNR WKVLRRFVSVT TMRDFGMGKR SVEERIQEEA QCLIEELRKS KGALMDPTFL FQSITANIIC SIVFGKRFHY QDQEFLKMLN LFYQTFSLIS SVFGQLFELF SGFLKYFPGA HRQVYKNLQE INAYIGHSVE KHRETLDPSA PKDLIDTYLL HMEKEKSNAH SEFSHQNLNL NTLSLFFAGT ETTSTTLRYG FLLMLKYPHV AERVYREIEQ VIGPHRPPPEL HDRAKMPYTE AVIYEIQRFS DLLPMGVPHI VTQHTSFRGY IIPKDTEVFL ILSTALHDPH YFEKPDAFNP DHFLDANGAL KKTEAFIPFS LGKRICLGEI IARAELFLFF TTILQNFMSA SPVAPEDIDL TPQECGVGKI PPTYQIRFLP R 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:

CYP2B6

Alternative Name:

CYP2B6 ([CYP2B6 Products](#))

Background:

Cytochrome P450 2B6 (EC 1.14.13.-) (1,4-cineole 2-exo-monooxygenase) (CYP11B6) (Cytochrome P450 I1B1),FUNCTION: A cytochrome P450 monooxygenase involved in the metabolism of endocannabinoids and steroids (PubMed:21289075, 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 (NADPH--hemoprotein reductase). Catalyzes the epoxidation of double bonds of arachidonylethanolamide (anandamide) to 8,9-, 11,12-, and 14,15- epoxyeicosatrienoic acid ethanolamides (EpETRe-EAs), potentially modulating endocannabinoid system signaling (PubMed:21289075). Hydroxylates steroid hormones, including testosterone at C-16 and estrogens at C-2 (PubMed:21289075, PubMed:12865317). Plays a role in the oxidative metabolism of xenobiotics, including plant lipids and drugs (PubMed:11695850, PubMed:22909231). Acts as a 1,4-cineole 2-exo-monooxygenase (PubMed:11695850).

Target Details

{ECO:0000269|PubMed:11695850, ECO:0000269|PubMed:12865317, ECO:0000269|PubMed:21289075, ECO:0000269|PubMed:22909231}., FUNCTION: Allele 2B6*9: Has low affinity for anandamide and can only produce 11,12 EpETrE-EAs. {ECO:0000269|PubMed:21289075}.

Molecular Weight: 56.3 kDa

UniProt: [P20813](#)

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