

Datasheet for ABIN7546735
CYP2S1 Protein (AA 1-504) (His tag)



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Overview

Quantity:	1 mg
Target:	CYP2S1
Protein Characteristics:	AA 1-504
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CYP2S1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant CYP2S1 Protein expressed in mammalian cells.
Sequence:	MEATGTWALL LALALLLLLT LALSGTRARG HLPPGPTPLP LLGNLLQLRP GALYSGLMRL SKKYGPVFTI YLGPWRPVVV LVGQEAVREA LGGQAEFVSG RGTVAMLEGT FDGHGVFFSN GERWRQLRKF TMLALRDLGM GKREGEELIQ AEARCLVETF QGTEGRPFDP SLLLAQATSN VVCSSLFGLR FSYEDKEFQA VVRAAGGTLT GVSSQGGQTY EMFSWFLRPL PGPHKQLLHH VSTLAAFTVR QVQQHQGNLD ASGPARDLVD AFLKMAQEE QNPGTEFTNK NMLMTVIYLL FAGTMTVSTT VGYTL LLLMK YPHVQKWVRE ELNRELGAGQ APSLGDTRL PYTDAVLHEA QRLALVPMG IPRTLMRTTR FRGYTLPQGT EVFPLLGSIL HDPNIFKHPE EFNPDRLDA DGRFRKHEAF LPFSLGKRVC LGEGLAKAEL FLFFTTILQA FSLESPCPD TLSLKPTVSG LFNIPPAFQL QVRPTDLHST TQTR 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:

CYP2S1

Alternative Name:

CYP2S1 ([CYP2S1 Products](#))

Background:

Cytochrome P450 2S1 (EC 1.14.14.-) (CYPIIS1) (Hydroperoxy icosatetraenoate dehydratase) (EC 4.2.1.152) (Thromboxane-A synthase) (EC 5.3.99.5),FUNCTION: A cytochrome P450 monooxygenase involved in the metabolism of retinoids and eicosanoids (PubMed:12711469, PubMed:21068195). In epidermis, may contribute to the oxidative metabolism of all-trans-retinoic acid. For this activity, 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:12711469). Additionally, displays peroxidase and isomerase activities toward various oxygenated eicosanoids such as prostaglandin H2 (PGH2) and hydroperoxyeicosatetraenoates (HPETEs) (PubMed:21068195). Independently of cytochrome P450 reductase, NADPH, and O2, catalyzes the breakdown of PGH2 to hydroxyheptadecatrienoic acid (HHT) and malondialdehyde (MDA), which is known to act as a mediator of DNA damage

Target Details

(PubMed:21068195). {ECO:0000269|PubMed:12711469, ECO:0000269|PubMed:21068195}.

Molecular Weight: 55.8 kDa

UniProt: [Q96SQ9](#)

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