

Datasheet for ABIN7560016
CYP2C70 Protein (AA 1-489) (His tag)



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Overview

Quantity:	1 mg
Target:	CYP2C70
Protein Characteristics:	AA 1-489
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CYP2C70 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Cyp2c70 Protein expressed in mammalian cells.
Sequence:	<p>MALFIFLGIW LSCFLFLFLW NQHRGRGKLP PGPTPLPIVG NILQVDVKNI SKSMGMLAKK YGPVFTVYLG MKPTVVLHGY KAMKEALIDQ GDEFSDKTDS SLLSRTSQGL GIVFSNGETW KQTRRFSLMV LRSMGMGKKT IEDRIQEEIL YMLDALRKTN GSPCDPSFLL ACVPCNVIST VIFQHRFDYN DQTFQDFMEN FHRKIEILAS PWSQLCSAYP ILYYLPGIHN RFLKDVTQQK KFILEEINRH QKSLDLSNPQ DFIDYFLIKM EKEKHNQKSE FTMDNLVVS I GDLFGAGTET TSSTVKYGLL LLLKYPEVTA KIQEEIAHVI GRHRRPTMQD RNHMPYTDV LHEIQRYIDF VPIPSRKTT QDVEFRGYHI PKGTSVMACL TSVLNDDKEF PNPEKFDPGH FLDEKGNFKK SDYFVAFSAG RRACIGEGLA RMEMFLILT N ILQHFTLKPL VKPEDIDTKP VQTGLLHVPP PFELCFIPV 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>
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:

CYP2C70

Alternative Name:

Cyp2c70 ([CYP2C70 Products](#))

Background:

Cytochrome P450 2C70 (EC 1.14.14.-) (CYPIIC70),FUNCTION: A cytochrome P450 monooxygenase involved in muricholic acid (MCA) synthesis (PubMed:27638959). Hydroxylates at the 6-beta position two major bile acids, chenodeoxycholic acid (CDCA) and ursodeoxycholic acid (UDCA) to form alpha-MCA and beta-MCA, respectively (PubMed:27638959). May regulate NR1H4/farnesoid X receptor signaling, as taurine-conjugated MCAs are antagonists of NR1H4. 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) (PubMed:27638959). {ECO:0000269|PubMed:27638959}.

Molecular Weight:

56.0 kDa

UniProt:

[Q91W64](#)

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
