

Datasheet for ABIN7560429  
**CYP4F3 Protein (AA 1-524) (His tag)**



[Go to Product page](#)

## Overview

Quantity:	1 mg
Target:	CYP4F3
Protein Characteristics:	AA 1-524
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CYP4F3 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant Cyp4f3 Protein expressed in mammalian cells.
Sequence:	<p>MSQLSMSWVG LGHTAASPWL LLLLAGASCL LAYILTPIYG VFENSLRLRC FPQPPKRNWI LGHLGLIQSS EGGLELIQSL VRTFRDACCW WVGPLHPVIR IFHPAFIKPV VLAPALVAPK DTVFYRFLKP WLGDGLLMST GDKWSRHRM LTPAFHFNIL KPYVKVFNDS TNIMHAKWQR LASKGSAYLN MFEHISLMTL DSLQKCVFSF DSNCQEKPSE YITAIELST LVARRHQPLL LHVDFLYYLT HDGMRFRKAC RLVHDFDVAV IRERRRLLD QGGVDVLKAK AKAKTLDFID VLLLSKDEHG KALSDEDIRA EADTFMFGGH DTTASGLSWI LYNLARHPEY QERCQREVE LLRDREPEEI EWDDLAQLPF LTMCIKESLR LHPPVTAISR CCTQDIVLPD GRVIPKGVIS RISIFGTHHN PAVWPDPEVY DPFDFADNV KGRSPLAFIP FSAGPRNCIG QTFAMSEMKV ALALTLRFR VLPDDKEPRR KPELILRAEG GLWLKVEPLS AGAQ <b>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.</b></p>

## Product Details

---

**Specificity:** If you are looking for a specific domain and are interested in a partial protein or a different 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:** CYP4F3

---

**Alternative Name:** Cyp4f3 ([CYP4F3 Products](#))

---

**Background:** Cytochrome P450 4F3 (CYP4F3) (Leukotriene-B(4) omega-1/omega-2 hydroxylase),FUNCTION: A cytochrome P450 monooxygenase involved in the metabolism of the pro-inflammatory lipid mediator leukotriene B4 (LTB4) (PubMed:16380383, PubMed:24632148). Hydroxylates at the omega-1 and omega-2 positions LTB4. This oxidation step leads to LTB4 inactivation, which is postulated to be a crucial part of the resolution of inflammation (PubMed:16380383, PubMed:24632148). 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:16380383, PubMed:24632148). {ECO:0000269|PubMed:16380383, ECO:0000269|PubMed:24632148}.

---

**Molecular Weight:** 59.8 kDa

---

## Target Details

---

UniProt:	<a href="#">Q99N16</a>
Pathways:	<a href="#">Steroid Hormone Biosynthesis</a> , <a href="#">C21-Steroid Hormone Metabolic Process</a> , <a href="#">Monocarboxylic Acid Catabolic Process</a>

## 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