

Datasheet for ABIN7553553  
**CYP4F8 Protein (AA 1-520) (His tag)**



[Go to Product page](#)

## Overview

Quantity:	1 mg
Target:	CYP4F8
Protein Characteristics:	AA 1-520
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CYP4F8 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant CYP4F8 Protein expressed in mammalian cells.
Sequence:	<p>MSLLSLSWLGLRPVAASPWL LLLVVGASWL LARILAWTYA FYHNGRRLRC FPQPRKQNWFLGHLGLVTPT EEGLRVLTQL VATYPQGFVR WLGPIITPIIN LCHPDIVRSV INTSDAITDK DIVFYKTLKP WLGDGLLLSV GDKWRHHRRL LTPAFHFNIL KPYIKIFS KS ANIMHAKWQRLAMEGSTCLD VFEHISLMTL DSLQKCIFS DSNCQEKPSE YITAIMELSA LVVKRNNQFF RYKDFLYFLT PCGRRFHRAC RLVHDFTDAV IQERRRTLTS QGVDDFLQAK AKSKTLDFID VLLLSSEDKNG KELSDEDIRA EADTFMFGGH DTTASGLSWV LYNLARHPEY QERCRCQEVQELLDREPKEI EWDDLAQLPF LTMCLKESLR LHPIPTFAR GCTQDVVLPD SRVIPKGNVC NINIFAIHNN PSVWPDPEVY DPFDFPENNA QKRSPMAFIP FSAGPRNCIG QKFAMAEMKV VLALTLRFR ILPDHREPRR TPEIVLRAED GLWLRVEPLG</p> <p><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:** CYP4F8

---

**Alternative Name:** CYP4F8 ([CYP4F8 Products](#))

---

**Background:** Cytochrome P450 4F8 (EC 1.14.14.1) (CYP4F8),FUNCTION: A cytochrome P450 monooxygenase involved in the metabolism of endogenous polyunsaturated fatty acids (PUFAs) and their oxygenated derivatives (oxylipins). 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). Catalyzes the hydroxylation of carbon hydrogen bonds, with preference for omega-1 and omega-2 positions (PubMed:10791960, PubMed:16112640, PubMed:15789615). Hydroxylates (5Z,8Z,11Z,14Z)-eicosatetraenoic acid (arachidonate) predominantly at omega-2 position to form (18R)-hydroxyeicosatetraenoic acid (18R-HETE) (PubMed:10791960). Exhibits omega-1 hydroxylase activity toward prostaglandin (PG) H1, PGH2 and PGI2 (PubMed:10791960, PubMed:15789615). Catalyzes the epoxidation of double

---

## Target Details

---

bonds of PUFAs, including docosahexaenoic and docosapentaenoic acids (PubMed:16112640). Shows little activity against PGD2, PGE1, PGE2, PGF2alpha, and leukotriene B4. {ECO:0000269|PubMed:10791960, ECO:0000269|PubMed:15789615, ECO:0000269|PubMed:16112640}.

---

Molecular Weight: 60.0 kDa

---

UniProt: [P98187](#)

## 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