

[Go to Product page](#)

Datasheet for ABIN7546789

**CYP2E1 Protein (AA 1-493) (His tag)**

## Overview

Quantity:	1 mg
Target:	CYP2E1
Protein Characteristics:	AA 1-493
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CYP2E1 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant CYP2E1 Protein expressed in mammalian cells.
Sequence:	<p>MSALGVTVAL LVWAAFLLL SMWRQVHSSW NLPPGPFPLP IIGNLFQLEL KNIPKSFTRL AQRFGPVFTL YVGSQRMVVM HGYKAVKEAL LDYKDEFSGR GDLPAFHAHR DRGIIFNNGP TWKDIRRFSL TTLRNYGMGK QGNESRIQRE AHFLLEALRK TQGQFPDPTF LIGCAPCNVI ADILFRKHFD YNDEKFLRLM YLFNENFHLL STPWLQLYNN FPSFLHYLPG SHRKVIKNVA EVKEYVSERV KEHHQSLDPN CPRDLTDCLL VEMEKEKHSA ERLYTMDGIT VTVADLFFAG TETTSTTLRY GLLILMKYPE IEEKLHEEID RVIGPSRIPA IKDRQEMPYM DAVVHEIQRF ITLVPSNLPH EATRDTIFRG YLIPKGTVVV PTLDSVLYDN QEFDPPEKFK PEHFLNENGG FKYSDFKPF STGKRVCAGE GLARMELFLL LCAILQHFNL KPLVDPKID LSPHIHGFGC IPPRYKLCVI PRS <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>
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:

CYP2E1

### Alternative Name:

CYP2E1 ([CYP2E1 Products](#))

### Background:

Cytochrome P450 2E1 (EC 1.14.14.1) (4-nitrophenol 2-hydroxylase) (EC 1.14.13.n7) (CYP11E1) (Cytochrome P450-J),FUNCTION: A cytochrome P450 monooxygenase involved in the metabolism of fatty acids (PubMed:10553002, PubMed:18577768). 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) (PubMed:10553002, PubMed:18577768). Catalyzes the hydroxylation of carbon-hydrogen bonds. Hydroxylates fatty acids specifically at the omega-1 position displaying the highest catalytic activity for saturated fatty acids (PubMed:10553002, PubMed:18577768). May be involved in the oxidative metabolism of xenobiotics (Probable). {ECO:0000269|PubMed:10553002, ECO:0000269|PubMed:18577768, ECO:0000305|PubMed:9348445}.

### Molecular Weight:

56.8 kDa

## Target Details

---

UniProt: [P05181](#)

## 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