

Datasheet for ABIN7546669

**CYP2A6 Protein (AA 1-494) (His tag)**[Go to Product page](#)

## Overview

Quantity:	1 mg
Target:	CYP2A6
Protein Characteristics:	AA 1-494
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CYP2A6 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant CYP2A6 Protein expressed in mammalian cells.
Sequence:	<p>MLASGMLLVA LLVCLTVMVL MSVWQQRKSK GKLPPGPTPL PFIGNYLQLN TEQMYNSLMK ISERYGPVFT IHLGPRRVVV LCGHDAVREA LVDQAEFSG RGEQATFDWV FKGYGVVFSN GERAKQLRRF SIATLRDFGV GKRGIERIQ EEAGFLIDAL RGTGGANIDP TFFLSRTVSN VISSIVGDR FDYKDKEFLS LLRMMLGIFQ FTSTSTGQLY EMFSSVMKHL PGPQQQAFQL LQGLEDFIAK KVEHNQRTLD PNSPRDFIDS FLIRMQEEEE NPNTFEYLKN LVMTTLNLFI GGTETVSTTL RYGFLLLMKH PEVEAKVHEE IDRVIKNRQ PKFEDRAKMP YMEAVIHEIQ RFGDVIPMSL ARRVKDKTKF RDFFLPKGTE VYPMLGSVLR DPSFFSNPQD FNPQHFLNEK GQFKKSDAFV PFSIGKRNCF GEGLARMELF LFFTTVMQNF RLKSSQSPKD IDVSPKHVGF ATIPRNYTMS FLPR <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

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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

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### Target:

CYP2A6

### Alternative Name:

CYP2A6 ([CYP2A6 Products](#))

### Background:

Cytochrome P450 2A6 (EC 1.14.14.-) (1,4-cineole 2-exo-monooxygenase) (CYP11A6) (Coumarin 7-hydroxylase) (Cytochrome P450 IIA3) (Cytochrome P450(I)),FUNCTION: Exhibits a high coumarin 7-hydroxylase activity. Can act in the hydroxylation of the anti-cancer drugs cyclophosphamide and ifosphamide. Competent in the metabolic activation of aflatoxin B1. Constitutes the major nicotine C-oxidase. Acts as a 1,4-cineole 2-exo-monooxygenase. Possesses low phenacetin O-deethylation activity. {ECO:0000269|PubMed:11695850, ECO:0000269|PubMed:16086027, ECO:0000269|PubMed:17125252, ECO:0000269|PubMed:18779312, ECO:0000269|PubMed:1889415, ECO:0000269|PubMed:1944238}.

### Molecular Weight:

56.5 kDa

### UniProt:

[P11509](#)

## Application Details

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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.

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Restrictions: For Research Use only

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## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months

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