

Recombinant Human CYP46A1 Protein, His&Avi tagged

Cat. No. CYP46A1-706H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CYP46A1 Protein with His-Avi tag was expressed in HEK293.
Species	Human
Source	HEK293
Description	This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This endoplasmic reticulum protein is expressed in the brain, where it converts cholesterol to 24S-hydroxycholesterol. While cholesterol cannot pass the blood-brain barrier, 24S-hydroxycholesterol can be secreted in the brain into the circulation to be returned to the liver for catabolism.
Form	Lyophilized from 50mM PB, 200mM NaCl, pH7.4, 5% Trehalose, 5% Mannitol
Molecular Mass	60 kDa
AASequence	MSPGLLLLGSAVLLAFGLCCTFVHRARSRYEHIPGPPRPSFLLGHLPCFWKKDEVG GRVLQDVFLDWAKKYGPVVRVNVFHKTSVIVTSPESVKKFLMSTKYNKDSKMYRAL QTVFGERLFGQGLVSECNYERWHKQRRVIDLAFSRSSLVSLMETFNKAEQLVEILE AKADGQTPVSMQDMLTYTAMDILAKAAFGMETSMLLGAQKPLSQAVKLMLEGITAS RNTLAKFLPGKRKQLREVRESIRFLRQVGRDWVQRRREALKRGEVVPADILTQILKA EEGAQDDEGLLDNFVTFIAGHETSANHLAFTVMELSRQPEIVARLQAEVDEVIGSK RYLDFEDLGRLQYLSQVLKESRLRYPPAWGTFRLLLEETLIDGVRVPGNTPLLFSTYV

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MGRMDTYFEDPLTFNPDRFGPGAPKPRFTYFPFSLGHRSCIGQQFAQMEVKVMA
KLLQRLEFRLVPGQRFGLQEATLKPLDPVLCTLRPRGWQPAPPPPPCGLNDIFEA
QKIEWHEHHHHHHHHH

Endotoxin < 1 EU/μg by LAL

Purity > 80% by SDS-PAGE

Storage Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution It is recommended that sterile water be added to the vial to prepare a stock solution. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name CYP46A1 cytochrome P450, family 46, subfamily A, polypeptide 1 [Homo sapiens (human)]

Official Symbol CYP46A1

Synonyms CYP46A1; cytochrome P450, family 46, subfamily A, polypeptide 1; CYP46, cytochrome P450, subfamily 46 (cholesterol 24 hydroxylase); cholesterol 24-hydroxylase; CH24H; cytochrome P450 46A1; cytochrome P450, subfamily 46 (cholesterol 24-hydroxylase); CP46; CYP46

Gene ID 10858

mRNA Refseq NM_006668

Protein Refseq NP_006659

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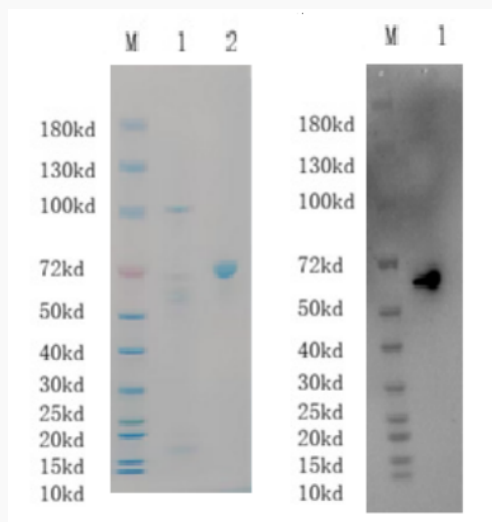
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MIM 604087

UniProt ID Q9Y6A2

SDS-PAGE and WB



Reducing 4%-20% SDS-PAGE (CBB stained) and WB (Anti-His Mouse Monoclonal antibody) analysis profiles of purified CYP46A1. 1. CYP46A1: 1 µg 2. BSA: 1 µg

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