

Product Information

MemDX™ Membrane Protein Human CYP46A1 (Cytochrome P450 family 46 subfamily A member 1) Full Length

Cat. No.: **MPC4722K**

This product is for research use only and is not intended for diagnostic use.

This product is a made-to-order Human CYP46A1 membrane protein expressed in HEK293. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

CYP46A1

Protein Length

Full length

Protein Class

Oxidoreductase

TMD

1

Sequence

MSPGLLLLGSVLLAFGLCCTFVHRARSRYEHIPGPPRPSFLLGHLPCFW
KKDEVGGRVLQDVFLDWAKKYGPVVRVNVFHKTSVIVTSPESVKKFLMST
KYNKDSKMYRALQTVFGERLFGQGLVSECNYERWHKQRRVIDLAFSRSSL
VSLMETFNEKAEQLVEILEAKADGQTPVSMQDMLTYTAMDILAKAAFGME
TSMLLGAQKPLSQAVKLMLEGITASRNTLAKFLPGKRKQLREVRESIRFL
RQVGRDWVQRRREALKRGEVVPADILTQILKAEEGAQDDEGLLDNFVTFF
IAGHETSANHLAFTVMELSRQPEIVARLQAEVDEVIGSKRYLDFEDLGRL
QYLSQVLKESLRLYPPAWGTFRLL EEETLIDGVRVPGNTPLLFSTYVMGR
MDTYFEDPLTFNPDRFGPGAPKPRFTYFPFSLGHRSCIGQQFAQMEVKVV
MAKLLQRLEFRLVPGQRFGLQEATLKPLDPVLCTLRPRGWQPAPPPPPC

Product Description

Expression Systems

HEK293

Tag

Based on specific requirements

Protein Format

Detergent or based on specific requirements (Detergent, Liposome, Nanodisc, Polymer, VLP)

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -72°C or lower. Avoid freeze/thaw cycles.

Target**Target Protein**

CYP46A1

Full Name

Cytochrome P450 family 46 subfamily A member 1

Introduction

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.

Alternative Names

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

Gene ID

[10858](#)

UniProt ID

[Q9Y6A2](#)