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Product Information

MemDX™ Membrane Protein Human CYP7A1 (Cytochrome P450 family 7 subfamily A member 1) Full Length

Cat. No.: **MPC4719K**
This product is for research use only and is not intended for diagnostic use.

This product is a made-to-order Human CYP7A1 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
CYP7A1

Protein Length
Full length

Protein Class
Oxidoreductase

TMD
1

Sequence
MMTTSLIWGIAIAACCCLWLILGIRRRQTGEPPLENGLIPYLGCALQFGA
NPLEFLRANQRKHGHVFTCKLMGKYVHFITNPLSYHKVLCHGKYFDWKKF
HFATSAKAFGHRSIDPMDGNTTENINDTFIKTLQGHALNSLTESMMENLQ
RIMRPPVSSNSKTAAWVTEGMYSFCYRVMFEAGYLTIFGRDLTRRDTQKA
HILNNLDNFKQFDKVFPALVAGLPIHMFRTAHNAREKLAESLRHENLQKR
ESISELISLRMFLNDTLSTFDDLEKAKTHLVVLWASQANTIPATFWSLFQ
MIRNPEAMKAATEEVKRTLENAGQKVSLEGNPICLSQAELNDLPVLDSII
KESLRLSSASLNIRTAKEDFTLHLEDGSYNIRKDDIIALYPQLMHLDPEI
YPDPLTFKYDRYLDENGKTKTTFYCNGLKLKYYYMPFGSGATICPGRLFA
IHEIKQFLILMLSYFELELIEGQAKCPPLDQSRAGLGILPPLNDIEFKYK
FKHL

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

CYP7A1

Full Name

Cytochrome P450 family 7 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 membrane protein catalyzes the first reaction in the cholesterol catabolic pathway in the liver, which converts cholesterol to bile acids. This reaction is the rate limiting step and the major site of regulation of bile acid synthesis, which is the primary mechanism for the removal of cholesterol from the body. Polymorphisms in the promoter of this gene are associated with defects in bile acid synthesis.

Alternative Names

CYP7A1; CP7A; CYP7; CYPVII; cytochrome P450 7A1; 24-hydroxycholesterol 7-alpha-hydroxylase; cholesterol 7-alpha-hydroxylase; cholesterol 7-alpha-monooxygenase; cholesterol 7alpha-hydroxylase; cytochrome P450, family 7, subfamily A, polypeptide 1; cytochrome P450, subfamily VIIA polypeptide 1; Cytochrome P450 family 7 subfamily A member 1

Gene ID

1581

UniProt ID

P22680