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Product Information

MemDX™ Membrane Protein Human CYP7B1 (Cytochrome P450 family 7 subfamily B member 1) Full Length

Cat. No.: **MPC4723K**
This product is for research use only and is not intended for diagnostic use.

This product is a made-to-order Human CYP7B1 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
CYP7B1

Protein Length
Full length

Protein Class
Oxidoreductase

TMD
2

Sequence
MAGEVSAATGRFSLERLGLPGLALAAALLLLALCLLVRRTRRPGEPPLIK
GWLPYLGVVLNLRKDPLRFMKTLQKQHGDTFTVLLGGKYITFILDPFQYQ
LVIKNHKQLSFRVFSNKLLEKAFSISQLQKNHDMNDELHLCYQFLQGKSL
DILLESMMQNLKQVFEPQLLKTTSWDTAELYPFCSSIIFEITFTTIYGKV
IVCDNNKFISELRDDFLKFDDKFAYLVSNIPIELLGNVKSIREKIIKCFS
SEKLAKMQGWSEVFQSRQDVLEKYYVHEDLEIGAHHLGFLWASVANTIPT
MFWAMYYLLRHPEAMAAVRDEIDRLLQSTGQKKGSGFPIHLTREQLDSLI
CLESSIFEALRLSSYSTTIRFVEEDLTLSSETGDYCVRKGDLVAIFPPVL
HGDPEIFEAPEEFRYDRFIEDGKKKTTFFKRGKKLKCYLMPFGTGTSKCP
GRFFALMEIKQLLVILLTYFDLEIIDDKPIGLNYSRLLFGIQYPDSDVLF
RYKVKS

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

CYP7B1

Full Name

Cytochrome P450 family 7 subfamily B 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 of extrahepatic tissues, which converts cholesterol to bile acids. This enzyme likely plays a minor role in total bile acid synthesis, but may also be involved in the development of atherosclerosis, neurosteroid metabolism and sex hormone synthesis. Mutations in this gene have been associated with hereditary spastic paraplegia (SPG5 or HSP), an autosomal recessive disorder.

Alternative Names

CYP7B1; CP7B; CBAS3; SPG5A; cytochrome P450 7B1; 24-hydroxycholesterol 7-alpha-hydroxylase; 25-hydroxycholesterol 7-alpha-hydroxylase; 25/26-hydroxycholesterol 7-alpha-hydroxylase; 3-hydroxysteroid 7-alpha hydroxylase; cytochrome P450, subfamily VIIB (oxysterol 7 alpha-hydroxylase), polypeptide 1; oxysterol 7-alpha-hydroxylase; Cytochrome P450 family 7 subfamily B member 1

Gene ID

9420

UniProt ID

O75881

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