

## Product Information

### MemDX™ Membrane Protein Human CYP8B1 (Cytochrome P450 family 8 subfamily B member 1) Full Length

Cat. No.: **MPC4721K**

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

This product is a made-to-order Human CYP8B1 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

CYP8B1

##### Protein Length

Full length

##### Protein Class

Oxidoreductase

##### TMD

1

##### Sequence

MVLWGVPVLGALLVVIAGYLCLPGMLRQRRPWEPPLDKGTVPWLGHAMAFR  
KNMFEFLKRMRTKHGDVFTVQLGGQYFTFVMDPLSFGSILKDTQRKLD  
FYAKKLVLKVFYRSVQGDHEMIHSASTKHLRGDGLKDLNETMLDSL  
MLTSKGWSLDASCWHEDSLFRFCYYILFTAGYLSLFGYTKDKEQDLLQAG  
ELFMEFRKFDLLFPRFVYSLWPREWLEVGRLQRLFKMLSVSHSKEKEG  
ISNWLGNMLQFLREQGVPSAMQDKFNFMMLWASQGNTGPTSFWALLYLLK  
HPEAIRAVREEATQVLGEARLETQSFQAFKLGALQHTPVLDVVEETLRL  
RAAPTLLRLVHEDYTLKMSSGQEYLFHGDILALFPYLSVHMDPDIHPEP  
TVFKYDRFLNPNGSRKVDFFKTGKKIHHYTMPWGSVGSICGRFFALSEV  
KLFILLMVTHFDLELVDPDTPLPHVDPQRWGFGTMQPSHDVRFYRLHPT  
E

#### 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**

CYP8B1

**Full Name**

Cytochrome P450 family 8 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 conversion of 7 alpha-hydroxy-4-cholesten-3-one into 7-alpha,12-alpha-dihydroxy-4-cholesten-3-one. The balance between these two steroids determines the relative amounts of cholic acid and chenodeoxycholic acid both of which are secreted in the bile and affect the solubility of cholesterol. This gene is unique among the cytochrome P450 genes in that it is intronless.

**Alternative Names**

CYP8B1; CP8B; CYP12; 7-alpha-hydroxycholest-4-en-3-one 12-alpha-hydroxylase; 7 alpha-hydroxy-4-cholesten-3-one 12-alpha-hydroxylase; CYPVIII B1; cytochrome P450 8B1; cytochrome P450, family 8, subfamily B, polypeptide 1; cytochrome P450, subfamily VIIIB (sterol 12-alpha-hydroxylase), polypeptide 1; sterol 12-alpha-hydroxylase; Cytochrome P450 family 8 subfamily B member 1

**Gene ID**

[1582](#)

**UniProt ID**

[Q9UNU6](#)