

Recombinant Full Length Human CYP8B1 Protein, GST-tagged

Cat. No. CYP8B1-2485HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CYP8B1 full-length ORF (NP_004382.1, 1 a.a. - 501 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	501 amino acids
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 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. [provided by RefSeq, Jul 2008]
Molecular Mass	84.5 kDa
AA Sequence	MVLWGPVLGALLVVIAGYLCPLGMLRQRRPWEPPLDKGTVPWLGHAMAFRKNMFE FLKRMRTKHGADVFTVQLGGQYFTFVMDPLSFGPILKDTQRKLDFGQYAKKLVLKVF GYRSVQGDHEMIHSASTKHLRGDGLKDLNETMLDSLFSVMLTSKGWSLDASCWHE DSLFRFCYYILFTAGYLSLFGYTKDKEQDLLQAGELFMEFRKFDLLFPRFVYSLLWPR

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EWLEVGRLQRLFHKMLSVSHSQEKEGISNWLGNMLQFLREQGVPSAMQDKFNFM
MLWASQGNTGPTSFWALLYLLKHPEAIRAVREEATQVLGEARLETKQSFAFKLGAL
QHTPVLDVVEETLRLRAAPTLLRLVHEDYTLKMSSGQEYLFRHGDILALFPYLSVH
MDPDIHPEPTVFKYDRFLNPNGSRKVDFFKTGKKIHHYTMPWGSVSGVSIKGRFFALS
EVKLFILLMVTHFDLELVDPDTPLPHVDPQRWGFQTMQPSHDVRFYRLHPTE

Applications

Enzyme-linked Immunoabsorbent Assay
Western Blot (Recombinant protein)
Antibody Production
Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

CYP8B1 cytochrome P450 family 8 subfamily B member 1 [Homo sapiens (human)]

Official Symbol

CYP8B1

Synonyms

CYP8B1; cytochrome P450 family 8 subfamily B member 1; Cytochrome P450 Family 8 Subfamily B Member 1; Cytochrome P450, Subfamily VIII B (Sterol 12-Alpha-Hydroxylase), Polypeptide 1; Cytochrome P450, Family 8, Subfamily B, Polypeptide 1; Sterol 12-Alpha-Hydroxylase; Cytochrome P450 8B1; CYPVIII B1; CYP12; 7 Alpha-Hydroxy-4-Cholesten-3-One 12-Alpha-Hydroxylase; 7-Alpha-Hydroxycholest-4-En-3-One 12-Alpha-Hydroxylase; 7-Alpha-Hydroxy-4-Cholesten-3-One 12-Alpha-Hydroxylase; EC 1.14.18.8; CP8B; 7-alpha-hydroxycholest-4-en-3-one 12-alpha-hydroxylase; 7 alpha-hydroxy-4-cholesten-3-one 12-alpha-hydroxylase; CYPVIII B1;

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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; EC 1.14.18.8

Gene ID

1582

mRNA Refseq

NM_004391

Protein Refseq

NP_004382

MIM

602172

UniProt ID

Q9UNU6

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