Recombinant Human CYP8B1 Protein, GST-tagged

Cat. No. CYP8B1-2294H **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	Wheat Germ
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	MVLWGPVLGALLVVIAGYLCLPGMLRQRRPWEPPLDKGTVPWLGHAMAFRKNMFEFLKRMRTKHGDVFTVQLGGQYFTFVMDPLSFGPILKDTQRKLDFGQYAKKLVLKVFGYRSVQGDHEMIHSASTKHLRGDGLKDLNETMLDSLSFVMLTSKGWSLDASCWHEDSLFRFCYYILFTAGYLSLFGYTKDKEQDLLQAGELFMEFRKFDLLFPRFVYSLLWPREWLEVGRLQRLFHKMLSVSHSQEKEGISNWLGNMLQFLREQGVPSAMQDKFNFM

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	MLWASQGNTGPTSFWALLYLLKHPEAIRAVREEATQVLGEARLETKQSFAFKLGAL QHTPVLDSVVEETLRLRAAPTLLRLVHEDYTLKMSSGQEYLFRHGDILALFPYLSVH MDPDIHPEPTVFKYDRFLNPNGSRKVDFFKTGKKIHHYTMPWGSGVSICPGRFFALS EVKLFILLMVTHFDLELVDPDTPLPHVDPQRWGFGTMQPSHDVRFRYRLHPTE
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 VIIIB (Sterol 12-Alpha-Hydroxylase), Polypeptide 1; Cytochrome P450, Family 8, Subfamily B, Polypeptide 1; Sterol 12-Alpha-Hydroxylase; Cytochrome P450 8B1; CYPVIIIB1; 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; CYPVIIIB1; cytochrome P450 8B1; cytochrome P450, family 8, subfamily B, polypeptide 1;

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	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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