Recombinant Human CYP46A1 protein, GST-tagged

Cat. No. CYP46A1-259H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CYP46A1 (201 a.a. - 300 a.a.) fussed with GST tag at N-terminal was expressed in Wheat Germ.
Species	Human
Source	Wheat Germ
ProteinLength	201-300 a.a.
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 protein is expressed in the brain, where it converts cholesterol to 24S-hydroxycholesterol. While cholesterol cannot pass the blood-brain barrier, 24S-hydroxycholesterol can be secreted in the brain into the circulation to be returned to the liver for catabolism.
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	36.74 kDa
AA Sequence	TSMLLGAQKPLSQAVKLMLEGITASRNTLAKFLPGKRKQLREVRESIRFLRQVGRDW VQRRREALKRGEEVPADI LTQILKAEEGAQDDEGLLDNFVTFF
Applications	Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);

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	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.

GENE INFORMATION

Gene Name	CYP46A1 cytochrome P450, family 46, subfamily A, polypeptide 1 [Homo sapiens]
Official Symbol	CYP46A1
Synonyms	CP46; CYP46; cholesterol 24-hydroxylase; CH24H; cytochrome P450 46A1; cytochrome P450, subfamily 46 (cholesterol 24-hydroxylase)
Gene ID	10858
mRNA Refseq	NM_006668
Protein Refseq	NP_006659
MIM	604087
UniProt ID	Q9Y6A2
Chromosome Location	14q32.1
Pathway	Bile acid and bile salt metabolism, organism-specific biosystem; Biological oxidations, organism-specific biosystem; Cytochrome P450 - arranged by substrate type, organism-specific biosystem

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Function	cholesterol 24-hydroxylase activity; heme binding; iron ion binding

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