

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.) fused with GST tag at N-terminal was expressed in Wheat Germ.
Species	Human
Source	Wheat Germ
ProteinLength	201-300 a.a.
Description	<p>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.</p> <p>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.</p>
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	36.74 kDa
AA Sequence	TSMLLGAQKPLSQAVKLMLEGITASRNTLAKFLPGKRKQLREVRESIRFLRQVGRDW VQRRREALKRGEVPADI LTQILKAEEGAQDDEGLLDNFVTF
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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