

Recombinant Human CYP46A1 protein, MYC/DDK-tagged

Cat. No. CYP46A1-258H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CYP46A1 fused with MYC/DDK tag at C-terminal was expressed in HEK293 cells.
Species	Human
Source	HEK293
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	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	56.6 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration	>50 ug/mL as determined by microplate BCA method

GENE INFORMATION

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