

Recombinant Human CYP46A1 protein, MYC/DDK-tagged

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

SPECIFICATION

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|-------------------------|---|
| Product Overview | Recombinant Human CYP46A1 fused with MYC/DDK tag at C-terminal was expressed in HEK293 cells. |
| Species | Human |
| Source | HEK293 |
| 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 | 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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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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 |

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