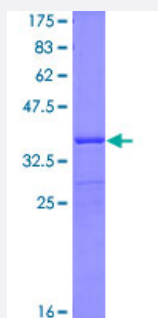


CYP46A1 (Human) Recombinant Protein (Q01)

Catalog # H00010858-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human CYP46A1 partial ORF (NP_006659, 201 a.a. - 300 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	TSMLLGAQKPLSQAVKLMLEGITASRNTLAKFLPGKRKQLREVRESIRFLRQVGRDWVQRRREAL KRGEEVPADILTQILKAEEGAQDDEGLLDNFVTFF
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.74
Interspecies Antigen Sequence	Mouse (94); Rat (94)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — CYP46A1

Entrez GeneID [10858](#)

GeneBank Accession# [NM_006668](#)

Protein Accession# [NP_006659](#)

Gene Name CYP46A1

Gene Alias CP46, CYP46

Gene Description cytochrome P450, family 46, subfamily A, polypeptide 1

Omim ID [604087](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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 can not pass the blood-brain barrier, 24S-hydroxycholesterol can be secreted in the brain into the circulation to be returned to the liver for catabolism. [provided by RefSeq]

Other Designations cholesterol 24-hydroxylase|cytochrome P450, family 46|cytochrome P450, subfamily 46 (cholesterol 24-hydroxylase)

Pathway

- [Primary bile acid biosynthesis](#)

Disease

- [Alzheimer disease](#)
- [Cardiovascular Diseases](#)
- [Cerebral Amyloid Angiopathy](#)
- [Cognition Disorders](#)
- [Diabetes Complications](#)
- [Disease Progression](#)
- [Genetic Predisposition to Disease](#)
- [Macular Degeneration](#)
- [Mental Status Schedule](#)
- [Metabolic Syndrome X](#)
- [Neoplasms](#)
- [Osteoporosis](#)
- [Postmortem Changes](#)
- [Psychiatric Status Rating Scales](#)