

Recombinant Full Length Human CYP3A4 Protein, GST-tagged

Cat. No. CYP3A4-2433HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CYP3A4 full-length ORF (AAI01632.1, 1 a.a. - 503 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	503 amino acids
Description	This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases that catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This protein localizes to the endoplasmic reticulum and its expression is induced by glucocorticoids and some pharmacological agents. This enzyme is involved in the metabolism of approximately half the drugs in use today, including acetaminophen, codeine, cyclosporin A, diazepam and erythromycin. The enzyme also metabolizes some steroids and carcinogens. This gene is part of a cluster of cytochrome P450 genes on chromosome 7q21.1. Previously another CYP3A gene, CYP3A3, was thought to exist; however, it is now thought that this sequence represents a transcript variant of CYP3A4. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Feb 2011]
Molecular Mass	83.7 kDa
AA Sequence	MALIPDLAMETWLLLA VSLVLLYLYGTHSHGLFKKLGIPGPTPLPFLGNILSYHKGFC

 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

MFDMECHKKYGKVVWGFYDGQQPVLAITDPDPMIKTVLVKECYSVFTNRRPFGPVGF
 MKSAISIAEDEEWKRLRSLLSPTFTSGKLEKEMVPIIAQYGDVLRNLRREAETGKPVT
 LKDVFGAYSMDVITSTSFGVNIDSLNNPQDPFVENTKKLLRFDLDPFFLSITVFPFLI
 PILEVLNICVFPREVTNFLRKSVMKESRLEDTQKHRVDFLQLMIDSQNSKETESHK
 ALSDLELVAQSIIFIFAGYETTSSVLSFIMYELATHPDVQQKLQEEIDAVLPNKAPPTYD
 TVLQMEYLDMMVNETLRLFPIAMRLERVCKKDVEINGMFIPKGVVVMIPSYALHRDPK
 YWTEPEKFLPERFSKKNKDNIDPYIYTPFGSGPRNCIGMRFALMNMKLALIRVLQNF
 SFKPKETQIPLKLSLGGLLQPEKPVVLKVESRDGTVSGA

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 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.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION
Gene Name

CYP3A4 cytochrome P450, family 3, subfamily A, polypeptide 4 [Homo sapiens]

Official Symbol

CYP3A4

Synonyms

CYP3A4; cytochrome P450, family 3, subfamily A, polypeptide 4; CYP3A3, cytochrome P450, subfamily IIIA (nifedipine oxidase), polypeptide 4; cytochrome P450 3A4; nifedipine oxidase; cytochrome P450 3A3; cytochrome P450 HLp; cytochrome P450-PCN1; cytochrome P450 NF-25; albendazole sulfoxidase; quinine 3-monooxygenase; albendazole monooxygenase; P450-III, steroid inducible;

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glucocorticoid-inducible P450; taurochenodeoxycholate 6-alpha-hydroxylase; cytochrome P450, subfamily IIIA (naphedipine oxidase), polypeptide 3; cytochrome P450, subfamily IIIA (naphedipine oxidase), polypeptide 4; HLP; CP33; CP34; CYP3A; NF-25; CYP3A3; P450C3; CYP3A3; CYP3A4; P450PCN1; MGC126680;

Gene ID 1576

mRNA Refseq NM_001202855

Protein Refseq NP_001189784

MIM 124010

UniProt ID P08684

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