

Recombinant Full Length Human CYP3A4 Protein

Cat. No. CYP3A4-117HF Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant full length Human Cytochrome P450 3A4 protein with an N terminal proprietary tag; predicted MW: 81.4 kDa.

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.

Form Liquid

Molecular Mass 81.400kDa

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AA Sequence

MALIPDLAMETWLLLAVSLVLLYLYGTHSHGLFKKLGIPG PTPLPFLGNILSYHKGFC
MFDMECHKKYGKVVWGFYDGGQP VLAITDPDIKTVLVKECYSVFTNRRPFGPVGF
MKS AISI AEDEEWKRLRSLLSPTFTSGKLEKEMVPIIAQYGDVLRNL RREAETGKPV
TLKDVFGAYSMDVITSTSFVGNIDSLNNPQ DPFVENTKLLRFDLDPFFLSITVFPFL
IPILEV LNICV FPREV TNFLRKS VKRMKESRLEDTQKHRVDFLQLMIDSN SKETES
HKALSDLELVAQSIIFAGYETTSSVLSFIMYE LATHPDVQQKLQEEIDAVLPNKAPP
TYD TVLQMEY LDMVV NETLRLFPIAMRLERVCKKDVEINGMFIPKGVVVMIPSYA LH
RDPKYWTEPEKFLPERFSKKNKDNIDPYIYTPFGSGPR NCIGMRFALMNMKLALIRV
LQNFSFKPKETQIPLKLSLG GLLQPEKPVVLKVESRDGTVSGA

Purity Proprietary Purification

Storage Shipped on dry ice. Upon delivery aliquot and store at -80 centigrade. Avoid freeze / thaw cycles.

Storage Buffer pH: 8.00. Constituents:0.79% Tris HCl, 0.31% Glutathione.

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 (niphedipine oxidase), polypeptide 4; cytochrome P450 3A4

Gene ID [1576](#)

mRNA Refseq [NM_001202855](#)

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Protein Refseq NP_001189784

MIM 124010

UniProt ID P08684

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