

Recombinant Human CYP3A4 Protein, His-tagged

Cat. No. CYP3A4-1301H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CYP3A4 Protein (Pro344-Asp497) with N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Pro344-Asp497
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, erythromycin, and chloroquine. 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	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 21.6 kDa

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	Accurate Molecular Mass: 22 kDa
Purity	> 90%
Applications	Cell culture; Activity Assays.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	CYP3A4 cytochrome P450, family 3, subfamily A, polypeptide 4 [Homo sapiens (human)]
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

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3-monooxygenase; albendazole monooxygenase; P450-III, steroid inducible; glucocorticoid-inducible P450; taurochenodeoxycholate 6- α -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](#)

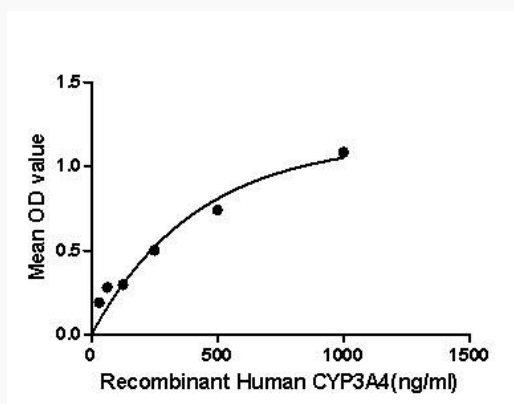
mRNA Refseq [NM_001202855](#)

Protein Refseq [NP_001189784](#)

MIM [124010](#)

UniProt ID [P08684](#)

Bioactivity



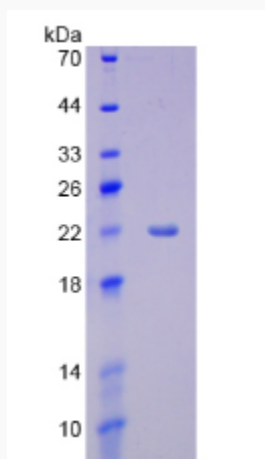
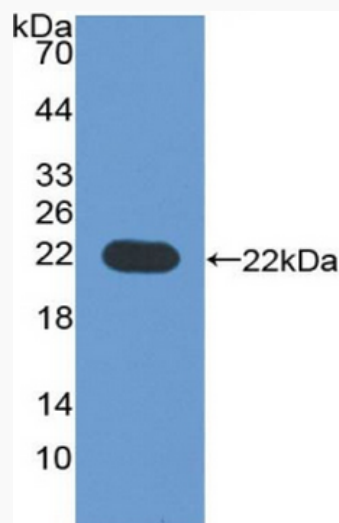
The binding activity of CYP3A4 with HSPA8.

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