

Recombinant Human CYP3A4/NADPH protein, Active

Cat. No. CYP3A4-363H Lot. No. (See product label)

SPECIFICATION

Product Overview	This is a permeabilized and stabilized dried yeast powder preparation containing recombinant human CYP 3A4 and recombinant human P450 NADPH oxidoreductase co expressed in the same preparation.
Species	Human
Source	P.pastoris
Form	Lyophilized powder
Molecular Mass	55 Kda
Notes	Centrifuge the vial prior to opening
Storage	Stable for 1 year as supplied. Store dry powder at -20 centigrade. Reconstitute in 100 mM Potassium Phosphate buffer, pH 7.7. Not recommended to be stored as solution. If storing as solution, aliquot and store at -80 centigrade. Avoid repeated freeze/thaw cycles and use aliquots within one month (the human CYP3A4 will lose approximately 10% activity per week when stored at -80 centigrade). Thaw aliquots rapidly at 37 centigrade and place on ice until use (thawed aliquots should be used within 4 hours).
Reconstitution	100 mM Potassium Phosphate buffer, pH 7.7

GENE INFORMATION

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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; glucocorticoid-inducible P450; taurochenodeoxycholate 6-alpha-hydroxylase; cytochrome P450, subfamily IIIA (nifedipine oxidase), polypeptide 3; cytochrome P450, subfamily IIIA (nifedipine 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
Chromosome Location	7q21.1
Pathway	Bile secretion, organism-specific biosystem; Bile secretion, conserved biosystem; Biological oxidations, organism-specific biosystem; Codeine and morphine metabolism, organism-specific biosystem; Cytochrome P450 - arranged by substrate type, organism-specific biosystem; Drug metabolism - cytochrome P450, organism-

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specific biosystem; Drug metabolism - cytochrome P450, conserved biosystem;

Function

albendazole monooxygenase activity; caffeine oxidase activity; electron carrier activity; enzyme binding; heme binding; iron ion binding; metal ion binding; monooxygenase activity; monooxygenase activity; oxidoreductase activity; oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen, reduced flavin or flavoprotein as one donor, and incorporation of one atom of oxygen; oxygen binding; quinine 3-monooxygenase activity; steroid binding; steroid hydroxylase activity; taurochenodeoxycholate 6alpha-hydroxylase activity; testosterone 6-beta-hydroxylase activity; vitamin D 24-hydroxylase activity; vitamin D3 25-hydroxylase activity;

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