

Active Recombinant Cynomolgus CYP3A4 Protein

Cat. No. CYP3A4-128C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant cynomolgus CYP3A4 protein and human CYP-reductase without tag were coexpressed in E. coli.
Species	Cynomolgus
Source	E.coli
Description	Catalyzes nifedipine and nilvadipine oxidations.
Bio-activity	Cytochrome c Reductase Activity: 171 nmol/min/mg protein P450 Activity Data(Unless otherwise stated, all assays are carried out at 37 centigrade in 100 mM potassium phosphate buffer (pH 7.4) containing 5 mM magnesium chloride and an NADPH generating system [5 mM glucose 6-phosphate, 1 mM NADP+, 1 U/ml glucose 6-phosphate dehydrogenase]) Activity: Testosterone 6β-hydroxylase Linear with time up to: 15 min(Determined at 15 μM substrate, using a P450 concentration of 25 pmol/ml) Linear with P450 up to: 60 pmol/ml(Determined at 15 μM substrate, using an incubation time of 5 min) Vmax: 4.8 pmol/min/pmol CYP Km: 17 μM
Usage	For laboratory (research) purposes only
Storage	Store at -80 centigrade. Avoid frequent temperature changes. Thaw on ice.

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Concentration

P450 Concentration: 5.0 nmol/ml
 Protein Concentration: 11.7 mg/ml
 Specific P450 Content: 427 pmol/mg protein

Storage Buffer 50 mM Tris-acetate (pH 7.6), 250 mM sucrose, 0.25 mM EDTA

GENE INFORMATION

Gene Name CYP3A4 cytochrome P450 family 3 subfamily A member 4 [*Macaca fascicularis* (crab-eating macaque)]

Official Symbol CYP3A4

Synonyms CYP3A4; cytochrome P450 family 3 subfamily A member 4; CYP3A8; CYP11A8; cytochrome P450 3A8; Cytochrome P-450-MK2; Cytochrome P450 3A8; Cytochrome P450-MKNF2; P-450 3A; cytochrome P-450 3A

Gene ID 102144258

mRNA Refseq NM_001284534

Protein Refseq NP_001271463

UniProt ID P33268

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