

Active Recombinant Rat Cyp3a9 Protein

Cat. No. Cyp3a9-137R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant rat Cyp3a9 protein and CYP-reductase without tag were coexpressed in E. coli.
Species	Rat
Source	E.coli
Description	Catalyzes the hydroxylation of progesterone at 6beta, 16alpha, and 21 positions
Bio-activity	Cytochrome c Reductase Activity: 806 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: 30 min(Determined at 32 μM substrate, using a P450 concentration of 50 pmol/ml) Linear with P450 up to: 100 pmol/ml(Determined at 32 μM substrate, using an incubation time of 5 min) Vmax: 3.4 pmol/min/pmol CYP Km: 21 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: 5.5 nmol/ml Protein Concentration: 16.0 mg/ml Specific P450 Content: 344 pmol/mg protein
Storage Buffer	50 mM Tris-acetate (pH 7.6), 250 mM sucrose, 0.25 mM EDTA
GENE INFORMATION	
Gene Name	Cyp3a9 cytochrome P450, family 3, subfamily a, polypeptide 9 [<i>Rattus norvegicus</i> (Norway rat)]
Official Symbol	Cyp3a9
Synonyms	Cyp3a9; cytochrome P450, family 3, subfamily a, polypeptide 9; Cyp3a13; P450olf3; cytochrome P450 3A9; 3AH15; CYP3A9; P450-OLF3; cytochrome P450 olfactive 3; cytochrome P450, family 3, subfamily a, polypeptide 13; cytochrome P450-OLF3; olfactive; olfactory cytochrome P450olf3
Gene ID	171352
mRNA Refseq	NM_147206
Protein Refseq	NP_671739
UniProt ID	Q5PQX2

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