

Active Recombinant Cynomolgus CYP3A5 Protein

Cat. No. CYP3A5-129C Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant cynomolgus CYP3A5 protein and human CYP-reductase without tag were coexpressed in E. coli.
Species	Cynomolgus
Source	E.coli
Description	The contribution of the CYP3A5 enzyme to the metabolism of clinically used drugs has been established only for a few CYP3A substrates, such as the immunosuppressant tacrolimus, while for drugs used in the field of psychiatry its role is still vague.
Bio-activity	<p>Cytochrome c Reductase Activity: 347 nmol/min/mg protein</p> <p>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])</p> <p>Activity: Testosterone 6β-hydroxylase</p> <p>Linear with time up to: 30 min(Determined at 40 μM substrate, using a P450 concentration of 12.5 pmol/ml)</p> <p>Linear with P450 up to: 60 pmol/ml(Determined at 40 μM substrate, using an incubation time of 5 min)</p> <p>Vmax: 5.8 pmol/min/pmol CYP</p> <p>Km: 16 μM</p>

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Usage	For laboratory (research) purposes only
Storage	Store at -80 centigrade. Avoid frequent temperature changes. Thaw on ice.
Concentration	P450 Concentration: 8.6 nmol/ml Protein Concentration: 9.8 mg/ml Specific P450 Content: 878 pmol/mg protein
Storage Buffer	50 mM Tris-acetate (pH 7.6), 250 mM sucrose, 0.25 mM EDTA

GENE INFORMATION

Gene Name	CYP3A5 cytochrome P450 family 3 subfamily A member 5 [<i>Macaca fascicularis</i> (crab-eating macaque)]
Official Symbol	CYP3A5
Synonyms	CYP3A5; cytochrome P450 family 3 subfamily A member 5; cytochrome P450 3A5; cytochrome P450 family 3 subfamily A member 5; cytochrome P450, family 3, subfamily A, polypeptide 5
Gene ID	102146134
mRNA Refseq	NM_001319511
Protein Refseq	NP_001306440
UniProt ID	A8CBR0

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