

Active Recombinant Cynomolgus CYP2C8 Protein

Cat. No. CYP2C8-124C Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant cynomolgus CYP2C8 protein and human CYP-reductase without tag were coexpressed in E. coli.
Species	Cynomolgus
Source	E.coli
Description	Cytochromes P450 are a group of heme-thiolate monooxygenases. In liver microsomes, this enzyme is involved in an NADPH-dependent electron transport pathway. It oxidizes a variety of structurally unrelated compounds, including steroids, fatty acids, and xenobiotics.
Bio-activity	<p>Cytochrome c Reductase Activity: 145 nmol/min/mg protein</p> <p>P450 Activity Data(Unless otherwise stated, all assays are carried out at 37 centigrade in 50 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: Paclitaxel 6α-hydroxylase</p> <p>Linear with time up to: 20 min(Determined at 15 μM substrate, using a P450 concentration of 125 pmol/ml)</p> <p>Linear with P450 up to: 100 pmol/ml(Determined at 15 μM substrate, using an incubation time of 20 min)</p> <p>Vmax: 0.14 pmol/min/pmol CYP</p> <p>Km: 18 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: 3.1 nmol/ml Protein Concentration: 8.3 mg/ml Specific P450 Content: 373 pmol/mg protein
Storage Buffer	50 mM Tris-acetate (pH 7.6), 250 mM sucrose, 0.25 mM EDTA

GENE INFORMATION

Gene Name	CYP2C8 cytochrome P450 family 2 subfamily C member 8 [<i>Macaca fascicularis</i> (crab-eating macaque)]
Official Symbol	CYP2C8
Synonyms	CYP2C8; cytochrome P450 family 2 subfamily C member 8; CYP2C20; CYP11C20; cytochrome P450 2C20; Cytochrome P450 2C20; Cytochrome P450-MK1; Cytochrome P450-MKMP13; P-450 2C; cytochrome P-450 2C
Gene ID	102117212
mRNA Refseq	NM_001283763
Protein Refseq	NP_001270692
UniProt ID	P33262

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