Active Recombinant Cynomolgus CYP2C76 Protein

Cat. No. CYP2C76-127C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant cynomolgus CYP2C76 protein and human CYP-reductase without tag were coexpressed in E. coli.
Species	Cynomolgus
Source	E.coli
Description	Cynomolgus CYP2C76, an important drug-metabolizing enzyme, accounts for drug metabolism differences to humans, so that CYP2C76-null animals might show drug-metabolizing properties more similar to humans.
Bio-activity	Cytochrome c Reductase Activity: 321 nmol/min/mg protein 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]) Activity: Tolbutamide 4-hydroxylase Linear with time up to: 25 min(Determined at 350 μM substrate, using a P450 concentration of 125 pmol/ml) Linear with P450 up to: 200 pmol/ml(Determined at 350 μM substrate, using an incubation time of 20 min) Vmax: 1.3 pmol/min/pmol CYP Km: 624 μM

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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: 8.8 nmol/ml Protein Concentration: 10.9 mg/ml Specific P450 Content: 807 pmol/mg protein
Storage Buffer	50 mM Tris-acetate (pH 7.6), 250 mM sucrose, 0.25 mM EDTA

GENE INFORMATION

Gene Name	CYP2C76 cytochrome P450 family 2 subfamily C member 76 [Macaca fascicularis (crab-eating macaque)]
Official Symbol	CYP2C76
Synonyms	CYP2C76; cytochrome P450 family 2 subfamily C member 76; cytochrome P450 family 2 subfamily C member 76; cytochrome P450 2C76
Gene ID	102114994
mRNA Refseq	NM_001284789
Protein Refseq	NP_001271718
UniProt ID	Q0HA17

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