

Active Recombinant Pig CYP2C49 Protein

Cat. No. CYP2C49-131P **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant pig CYP2C49 protein and pig CYP-reductase without tag were coexpressed in E. coli.
Species	Pig
Source	E.coli
Description	Biased expression in liver (RPKM 449.8), mixtures (RPKM 159.5) and 1 other tissue
Bio-activity	Cytochrome c Reductase Activity: 303 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: 60 min(Determined at 350 μM substrate, using a P450 concentration of 100 pmol/ml) Linear with P450 up to: 120 pmol/ml(Determined at 350 μM substrate, using an incubation time of 20 min) Vmax: 0.41 pmol/min/pmol CYP Km: 586 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: 10.0 nmol/ml
	Protein Concentration: 15.5 mg/ml
	Specific P450 Content: 646 pmol/mg protein
Storage Buffer	50 mM Tris-acetate (pH 7.6), 250 mM sucrose, 0.25 mM EDTA

GENE INFORMATION

Gene Name	CYP2C49 cytochrome P450 2C49 [<i>Sus scrofa</i> (pig)]
Official Symbol	CYP2C49
Synonyms	CYP2C49; cytochrome P450 2C49; cytochrome P450 2C49
Gene ID	403215
mRNA Refseq	NM_214420
Protein Refseq	NP_999585
UniProt ID	Q8SQ65

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