

Active Recombinant Cynomolgus CYP2C9 Protein

Cat. No. CYP2C9-125C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant cynomolgus CYP2C9 protein and human CYP-reductase without tag were coexpressed in E. coli.
Species	Cynomolgus
Source	E.coli
Description	CYP2C9 mediated oxidation of valproate, which is the minor metabolic pathway in adults, appears to become the principal route in children. Genetic and non-genetic variations in CYP2C9 activity can result in significant inter- and intra-individual differences in valproate pharmacokinetics and valproate induced adverse reactions.
Bio-activity	Cytochrome c Reductase Activity: 191 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: Testosterone 17-oxidase Linear with time up to: 30 min(Determined at 15 μM substrate, using a P450 concentration of 10 pmol/ml) Linear with P450 up to: 50 pmol/ml(Determined at 15 μM substrate, using an incubation time of 5 min) Vmax: 15 pmol/min/pmol CYP Km: 15 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: 2.8 nmol/ml Protein Concentration: 9.4 mg/ml Specific P450 Content: 298 pmol/mg protein
Storage Buffer	50 mM Tris-acetate (pH 7.6), 250 mM sucrose, 0.25 mM EDTA

GENE INFORMATION

Gene Name	CYP2C9 cytochrome P450 family 2 subfamily C member 9 [<i>Macaca fascicularis</i> (crab-eating macaque)]
Official Symbol	CYP2C9
Synonyms	CYP2C9; cytochrome P450 family 2 subfamily C member 9; CYP2C43; cytochrome P450 2C9-like; cytochrome P450 family 2 subfamily C member 9; cytochrome P450 2C43; cytochrome P450, family 2, subfamily C, polypeptide 9
Gene ID	102115450
mRNA Refseq	NM_001287625
Protein Refseq	NP_001274554
UniProt ID	Q0HA18

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