

Active Recombinant Rat Cyp2c11 Protein

Cat. No. Cyp2c11-142R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant rat Cyp2c11 protein and CYP-reductase without tag were coexpressed in E. coli.
Species	Rat
Source	E.coli
Description	Most abundant member of the p450 xenobiotic-inducible superfamily in non-stimulated liver; metabolizes xenobiotics and testosterone
Bio-activity	Cytochrome c Reductase Activity: 2347 nmol/min/mg protein P450 Activity Data(Unless otherwise stated, all assays are carried out at 37 centigrade in 100 mM potassium phosphate buffer (pH 7.4) containing 5mM magnesium chloride and an NADPH generating system [5 mM glucose 6-phosphate, 1 mM NADP+, 1 U/ml glucose 6-phosphate dehydrogenase]) Activity: Testosterone 6β-hydroxylase Linear with time up to: 12 min(Determined at 5 μM substrate, using a P450 concentration of 6.25 pmol/ml) Linear with P450 up to: 25 pmol/ml(Determined at 5 μM substrate, using an incubation time of 5 min) Vmax: 17 pmol/min/pmol CYP Km: 4.4 μM
Usage	For laboratory (research) purposes only

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Storage	Store at -80 centigrade. Avoid frequent temperature changes. Thaw on ice.
Concentration	P450 Concentration: 1.9 nmol/ml Protein Concentration: 9.5 mg/ml Specific P450 Content: 200 pmol/mg protein
Storage Buffer	50 mM Tris-acetate (pH 7.6), 250 mM sucrose, 0.25 mM EDTA
GENE INFORMATION	
Gene Name	Cyp2c11 cytochrome P450, subfamily 2, polypeptide 11 [<i>Rattus norvegicus</i> (Norway rat)]
Official Symbol	Cyp2c11
Synonyms	Cyp2c11; cytochrome P450, subfamily 2, polypeptide 11; Cyp2c; CYP2CII; Cyp2c11I; cytochrome P450 2C11; CYPIIC11; P-450(M-1); P450-UT-A; P450H; UT-2; cytochrome P-450(M-1); cytochrome P450 2C11-like; cytochrome P450, 2c29; cytochrome P450, subfamily IIC (mephenytoin 4-hydroxylase), polypeptide 11; cytochrome P450-UT-2; cytochrome P450-UT-A; cytochrome P450H
Gene ID	29277
mRNA Refseq	NM_019184
Protein Refseq	NP_062057
UniProt ID	P08683