

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	<p>Cytochrome c Reductase Activity: 2347 nmol/min/mg protein</p> <p>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])</p> <p>Activity: Testosterone 6β-hydroxylase</p> <p>Linear with time up to: 12 min(Determined at 5 μM substrate, using a P450 concentration of 6.25 pmol/ml)</p> <p>Linear with P450 up to: 25 pmol/ml(Determined at 5 μM substrate, using an incubation time of 5 min)</p> <p>Vmax: 17 pmol/min/pmol CYP</p> <p>Km: 4.4 μM</p>
Usage	For laboratory (research) purposes only

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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; CYP1IC11; 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

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