

Active Recombinant Rat Cyp1b1 Protein

Cat. No. Cyp1b1-140R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant rat Cyp1b1 protein and CYP-reductase without tag were coexpressed in E. coli.
Species	Rat
Source	E.coli
Description	Plays a role in polycyclic aromatic hydrocarbon metabolism in adrenal microsomes.
Bio-activity	Cytochrome c Reductase Activity: 1793 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: 7-ethoxyresorufin O-deethylase Linear with time up to: 6 min(Determined at 0.1 μM substrate, using a P450 concentration of 1 pmol/ml) Linear with P450 up to: 10 pmol/ml(Determined at 0.1 μM substrate, using an incubation time of 1 min) Vmax: 2.1 pmol/min/pmol CYP Km: 0.09 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: 1.9 nmol/ml Protein Concentration: 11.6 mg/ml Specific P450 Content: 164 pmol/mg protein
Storage Buffer	50 mM Tris-acetate (pH 7.6), 250 mM sucrose, 0.25 mM EDTA
GENE INFORMATION	
Gene Name	Cyp1b1 cytochrome P450, family 1, subfamily b, polypeptide 1 [<i>Rattus norvegicus</i> (Norway rat)]
Official Symbol	Cyp1b1
Synonyms	Cyp1b1; cytochrome P450, family 1, subfamily b, polypeptide 1; cytochrome P450 1B1; CYP1B1; P450RAP; cytochrome P450, subfamily 1B, polypeptide 1; cytochrome P450RAP; hydroperoxy icosatetraenoate dehydratase
Gene ID	25426
mRNA Refseq	NM_012940
Protein Refseq	NP_037072
UniProt ID	Q64678