

# Active Recombinant Rat Cyp1b1 Protein

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

## SPECIFICATION

<b>Product Overview</b>	Recombinant rat Cyp1b1 protein and CYP-reductase without tag were coexpressed in E. coli.
<b>Species</b>	Rat
<b>Source</b>	E.coli
<b>Description</b>	Plays a role in polycyclic aromatic hydrocarbon metabolism in adrenal microsomes.
<b>Bio-activity</b>	<p>Cytochrome c Reductase Activity: 1793 nmol/min/mg protein</p> <p>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])</p> <p>Activity: 7-ethoxyresorufin O-deethylase</p> <p>Linear with time up to: 6 min(Determined at 0.1 <math>\mu</math>M substrate, using a P450 concentration of 1 pmol/ml)</p> <p>Linear with P450 up to: 10 pmol/ml(Determined at 0.1 <math>\mu</math>M substrate, using an incubation time of 1 min)</p> <p>Vmax: 2.1 pmol/min/pmol CYP</p> <p>Km: 0.09 <math>\mu</math>M</p>
<b>Usage</b>	For laboratory (research) purposes only
<b>Storage</b>	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 [ *Rattus norvegicus* (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

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