

## Active Recombinant Dog CYP1B1 Protein

Cat. No. CYP1B1-120D Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant dog CYP1B1 protein without tag were coexpressed in E. coli.
<b>Species</b>	Dog
<b>Source</b>	E.coli
<b>Description</b>	Cytochrome P450 1B1 (CYP1B1), a member of CYP superfamily, is expressed in liver and extrahepatic tissues carries out the metabolism of numerous xenobiotics, including metabolic activation of polycyclic aromatic hydrocarbons.
<b>Bio-activity</b>	<p>Cytochrome c Reductase Activity: 1107 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: 90 sec.(Determined at 0.3 <math>\mu</math>M substrate, using a P450 concentration of 1 pmol/ml)</p> <p>Linear with P450 up to: 2.5 pmol/ml(Determined at 0.3 <math>\mu</math>M substrate, using an incubation time of 10 sec)</p> <p>Vmax: 39 pmol/min/pmol CYP</p> <p>Km: 0.03 <math>\mu</math>M</p>
<b>Usage</b>	For laboratory (research) purposes only

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<b>Storage</b>	Store at -80 centigrade. Avoid frequent temperature changes. Thaw on ice.
<b>Concentration</b>	P450 Concentration: 6.3 nmol/ml Protein Concentration: 13.1 mg/ml Specific P450 Content: 481 pmol/mg protein
<b>Storage Buffer</b>	50 mM Tris-acetate (pH 7.6), 250 mM sucrose, 0.25 mM EDTA

## GENE INFORMATION

<b>Gene Name</b>	CYP1B1 cytochrome P450 family 1 subfamily B member 1 [ <i>Canis lupus familiaris</i> (dog) ]
<b>Official Symbol</b>	CYP1B1
<b>Synonyms</b>	CYP1B1; cytochrome P450 family 1 subfamily B member 1; cytochrome P450 1B1; cytochrome P450, family 1, subfamily B, polypeptide 1
<b>Gene ID</b>	483038
<b>mRNA Refseq</b>	NM_001159684
<b>Protein Refseq</b>	NP_001153156
<b>UniProt ID</b>	C1KG39

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