Active Recombinant Dog CYP1B1 Protein

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

SPECIFICATION

Product Overview	Recombinant dog CYP1B1 protein without tag were coexpressed in E. coli.
Species	Dog
Source	E.coli
Description	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.
Bio-activity	Cytochrome c Reductase Activity: 1107 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: 90 sec.(Determined at 0.3 μM substrate, using a P450 concentration of 1 pmol/ml) Linear with P450 up to: 2.5 pmol/ml(Determined at 0.3 μM substrate, using an incubation time of 10 sec) Vmax: 39 pmol/min/pmol CYP Km: 0.03 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: 6.3 nmol/ml Protein Concentration: 13.1 mg/ml Specific P450 Content: 481 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 member 1 [Canis lupus familiaris (dog)]
Official Symbol	CYP1B1
Synonyms	CYP1B1; cytochrome P450 family 1 subfamily B member 1; cytochrome P450 1B1; cytochrome P450, family 1, subfamily B, polypeptide 1
Gene ID	483038
mRNA Refseq	NM_001159684
Protein Refseq	NP_001153156
UniProt ID	C1KG39

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