

Active Recombinant Dog CYP2B6 Protein

Cat. No. CYP2B6-113D Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant dog CYP2B6 protein without tag were coexpressed in E. coli.
Species	Dog
Source	E.coli
Description	Cytochromes P450 are a group of heme-thiolate monooxygenases. In liver microsomes, this enzyme is involved in an NADPH-dependent electron transport pathway. This isozyme seems responsible for metabolism of 2,2',4,4',5,5'-hexachlorobiphenyl.
Bio-activity	<p>Cytochrome c Reductase Activity: 568 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: Diazepam N-demethylase</p> <p>Linear with time up to: 10 min(Determined at 5 μM substrate, using a P450 concentration of 2.5 pmol/ml)</p> <p>Linear with P450 up to: 3.5 pmol/ml(Determined at 5 μM substrate, using an incubation time of 5 min)</p> <p>Vmax: 13 pmol/min/pmol CYP</p> <p>Km: 13 μM</p>
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: 3.7 nmol/ml Protein Concentration: 12.5 mg/ml Specific P450 Content: 296 pmol/mg protein
Storage Buffer	50 mM Tris-acetate (pH 7.6), 250 mM sucrose, 0.25 mM EDTA

GENE INFORMATION

Gene Name	CYP2B6 cytochrome P450 2B11 [<i>Canis lupus familiaris</i> (dog)]
Official Symbol	CYP2B6
Synonyms	CYP2B6; cytochrome P450 2B11; CYP2B11; CYP2B11; CYP2B11; cytochrome P450 2B11; Cytochrome-P450-2B11; cytochrome P450 PBD-2; cytochrome P450, family 2, subfamily B, polypeptide 11
Gene ID	474177
mRNA Refseq	NM_001006652
Protein Refseq	NP_001006653
UniProt ID	P24460

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