Active Recombinant Mouse Cyp2b10 Protein

Cat. No. Cyp2b10-121M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse Cyp2b10 protein and CYP-reductase without tag were coexpressed in E. coli.
Species	Mouse
Source	E.coli
Description	Biased expression in duodenum adult (RPKM 61.9), lung adult (RPKM 58.0) and 2 other tissues
Bio-activity	Cytochrome c Reductase Activity: 1989 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 5mM magnesium chloride and an NADPH generating system [5 mM glucose 6-phosphate, 1 mM NADP+, 1 U/ml glucose 6-phosphate dehydrogenase]) Activity: Bupropion hydroxylase Linear with time up to: 6 min(Determined at 15 μM substrate, using a P450 concentration of 6.25 pmol/ml) Linear with P450 up to: 6 pmol/ml(Determined at 15 μM substrate, using an incubation time of 5 min) Vmax: 30 pmol/min/pmol CYP Km: 18 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: 7.1 nmol/ml Protein Concentration: 8.9 mg/ml Specific P450 Content: 798 pmol/mg protein
Storage Buffer	50 mM Tris-acetate (pH 7.6), 250 mM sucrose, 0.25 mM EDTA

GENE INFORMATION

Gene Name	Cyp2b10 cytochrome P450, family 2, subfamily b, polypeptide 10 [Mus musculus (house mouse)]
Official Symbol	Cyp2b10
Synonyms	Cyp2b10; cytochrome P450, family 2, subfamily b, polypeptide 10; p16; Cyp2b; Cyp2b20; cytochrome P450 2B10; CYPIIB10; CYPIIB20; P24; cytochrome P450 2B20; cytochrome P450 clone PF3/46; cytochrome P450, 2b10, phenobarbitol inducible, type b; cytochrome P450, 2b20; cytochrome P450, family 2, subfamily b, polypeptide 20; cytochrome P450-16-alpha; phenobarbitol inducible, type b; testosterone 16-alpha hydroxylase
Gene ID	13088
mRNA Refseq	NM_009999
Protein Refseq	NP_034129
UniProt ID	Q9WUD0

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