

## Active Recombinant Mouse Cyp2b10 Protein

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

### SPECIFICATION

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| <b>Product Overview</b> | Recombinant mouse Cyp2b10 protein and CYP-reductase without tag were coexpressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | Biased expression in duodenum adult (RPKM 61.9), lung adult (RPKM 58.0) and 2 other tissues                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Bio-activity</b>     | <p>Cytochrome c Reductase Activity: 1989 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 5mM 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: Bupropion hydroxylase</p> <p>Linear with time up to: 6 min(Determined at 15 µM substrate, using a P450 concentration of 6.25 pmol/ml)</p> <p>Linear with P450 up to: 6 pmol/ml(Determined at 15 µM substrate, using an incubation time of 5 min)</p> <p>Vmax: 30 pmol/min/pmol CYP</p> <p>Km: 18 µM</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: 7.1 nmol/ml<br>Protein Concentration: 8.9 mg/ml<br>Specific P450 Content: 798 pmol/mg protein                                                                                                                                                                                                                                                                                                            |
| <b>Storage Buffer</b>   | 50 mM Tris-acetate (pH 7.6), 250 mM sucrose, 0.25 mM EDTA                                                                                                                                                                                                                                                                                                                                                                    |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Gene Name</b>        | Cyp2b10 cytochrome P450, family 2, subfamily b, polypeptide 10 [ Mus musculus (house mouse) ]                                                                                                                                                                                                                                                                                                                                |
| <b>Official Symbol</b>  | Cyp2b10                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Synonyms</b>         | Cyp2b10; cytochrome P450, family 2, subfamily b, polypeptide 10; p16; Cyp2b; Cyp2b20; cytochrome P450 2B10; CYP11B10; CYP11B20; P24; cytochrome P450 2B20; cytochrome P450 clone PF3/46; cytochrome P450, 2b10, phenobarbital inducible, type b; cytochrome P450, 2b20; cytochrome P450, family 2, subfamily b, polypeptide 20; cytochrome P450-16-alpha; phenobarbital inducible, type b; testosterone 16-alpha hydroxylase |
| <b>Gene ID</b>          | 13088                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>mRNA Refseq</b>      | NM_009999                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Protein Refseq</b>   | NP_034129                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>UniProt ID</b>       | Q9WUD0                                                                                                                                                                                                                                                                                                                                                                                                                       |

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