

Active Recombinant Rat Cyp2d4 Protein

Cat. No. Cyp2d4-138R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant rat Cyp2d4 protein and CYP-reductase without tag were coexpressed in E. coli.
Species	Rat
Source	E.coli
Description	Has N-demethylation activity toward the antidepressant imipramine
Bio-activity	Cytochrome c Reductase Activity: 1419 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: Dextromethorphan O-demethylase Linear with time up to: 6 min(Determined at 15 μM substrate, using a P450 concentration of 10 pm) Linear with P450 up to: 30 pmol/ml(Determined at 15 μM substrate, using an incubation time of 5 min) Vmax: 3.6 pmol/min/pmol CYP Km: 14 μM
Usage	For laboratory (research) purposes only
Storage	Store at -80 centigrade. Avoid frequent temperature changes. Thaw on ice.

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Concentration	P450 Concentration: 3.2 nmol/ml Protein Concentration: 11.7 mg/ml Specific P450 Content: 274 pmol/mg protein
Storage Buffer	50 mM Tris-acetate (pH 7.6), 250 mM sucrose, 0.25 mM EDTA
GENE INFORMATION	
Gene Name	Cyp2d4 cytochrome P450, family 2, subfamily d, polypeptide 4 [<i>Rattus norvegicus</i> (Norway rat)]
Official Symbol	Cyp2d4
Synonyms	Cyp2d4; cytochrome P450, family 2, subfamily d, polypeptide 4; Cyp2d6; Cyp2d18; Cyp2d22; Cyp2d4v1; Cyp2d4v2; cytochrome P450 2D4; CYP11D18; CYP11D4; Cytochrome P450, subfamily IID4; P450 2D-29/2D-35; P450-CMF3; P450-DB4; cytochrome P450 2D-29; cytochrome P450 2D-35; cytochrome P450 2d18; cytochrome P450, family 2, subfamily d, polypeptide 22; cytochrome P450, subfamily 2D, polypeptide 6; cytochrome P450, subfamily IID, polypeptide 6; cytochrome P450- CMF3; cytochrome P450-DB4; debrisoquine 4-hydroxylase
Gene ID	171522
mRNA Refseq	NM_138515
Protein Refseq	NP_612524
UniProt ID	Q64680