

Active Recombinant Dog CYP2D15 Protein

Cat. No. CYP2D15-116D **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant dog CYP2D15 protein without tag were coexpressed in E. coli.
Species	Dog
Source	E.coli
Description	High activity for the hydroxylation of bunitrolol and imipramine; low activity on debrisoquine.
Bio-activity	Cytochrome c Reductase Activity: 330 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: Bufuralol 1'-hydroxylase Linear with time up to: 8 min(Determined at 3 μM substrate, using a P450 concentration of 5 pmol/ml) Linear with P450 up to: 15 pmol/ml(Determined at 3 μM substrate, using an incubation time of 5 min) Vmax: 5.4 pmol/min/pmol CYP Km: 6.2 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: 5.2 nmol/ml Protein Concentration: 21.2 mg/ml Specific P450 Content: 245 pmol/mg protein
Storage Buffer	50 mM Tris-acetate (pH 7.6), 250 mM sucrose, 0.25 mM EDTA
GENE INFORMATION	
Gene Name	CYP2D15 cytochrome P450 2D [<i>Canis lupus familiaris</i> (dog)]
Official Symbol	CYP2D15
Synonyms	CYP2D15; cytochrome P450 2D; CYP2D; CYP11D15; cytochrome P450 2D15; Cytochrome-P450-2D15; cytochrome P450 DUT2; cytochrome P450, family 2, subfamily D, polypeptide 15; monooxygenase
Gene ID	415120
mRNA Refseq	NM_001003333
Protein Refseq	NP_001003333
UniProt ID	Q29473