Active Recombinant Human CYP1A2 Protein

Cat. No. CYP1A2-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CYP1A2 and human CYP-reductase are coexpressed in Escherichia coli.
Species	Human
Source	E.coli
Description	This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids.
Form	50 mM Tris-acetate (pH 7.6), 250 mM sucrose, 0.25 mM EDTA
Bio-activity	Specific P450 Content:100 pmol/mg protein; Cytochrome c Reductase Activity:26 nmol/min/mg protein; P450 Activity: 7-ethoxycoumarin O-deethylase; Linear with time up to:15 min; Linear with P450 up to:10 pmol/ml; Vmax:0.56 pmol/min/pmol CYP; Km:2.6 μM.
Notes	1.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]. 2.Determined at 2 μM substrate, using a P450 concentration of 2.5 pmol/ml. 3.Determined at 2 μM substrate, using an incubation time of 5 min.

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Storage	Store at -80 centigrade. Avoid frequent temperature changes. Thaw on ice.
Concentration	10 mg/ml

GENE INFORMATION

Gene Name	CYP1A2
Official Symbol	CYP1A2
Synonyms	CP12; CYPIA2; P3-450; P450(PA)
Gene ID	1544
mRNA Refseq	NM_000761.5
Protein Refseq	NP_000752.2
MIM	124060
UniProt ID	P05177

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