

Active Recombinant Human CYP2E1 Protein

Cat. No. CYP2E1-221H Lot. No. (See product label)

SPECIFICATION

Product Overview	Human CYP2E1 and human CYP-reductase coexpressed in Escherichia coli, supplemented with purified human cytochrome b5.
Species	Human
Source	E.coli
Bio-activity	<p>Cytochrome c Reductase Activity: 300 nmol/min/mg protein</p> <p>#1 P450 Activity Data</p> <p>Activity: Chlorzoxazone 6-hydroxylase</p> <p>#2 Linear with time up to: 15 min</p> <p>#3 Linear with P450 up to: 40 pmol/ml</p> <p>Vmax: 19 pmol/min/pmol CYP</p> <p>Km: 165 μM</p> <p>Notes:</p> <p>#1: Unless otherwise stated, all assays are carried out at 37 centigrade in 100 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].</p> <p>#2: Determined at 120 μM substrate, using a P450 concentration of 25 pmol/ml.</p> <p>#3: Determined at 120 μM substrate, using an incubation time of 5 min.</p>
Residual Host Cell Protein Content	Specific P450 Content: 100 pmol/mg protein

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Notes	For laboratory (research) purposes only.
Storage	Store at -80 centigrade. Avoid frequent temperature changes. Thaw on ice.
Concentration	P450 Concentration: 1.0 nmol/ml Cytochrome b5 Concentration: 5.0 nmol/ml Protein Concentration: 10.0 mg/ml
Storage Buffer	50 mM Tris-acetate (pH 7.6), 250 mM sucrose, 0.25 mM EDTA
Warning	The toxicological properties of this reagent have not been investigated. Exercise due care when handling.

GENE INFORMATION

Gene Name	CYP2E1 cytochrome P450 family 2 subfamily E member 1 [Homo sapiens (human)]
Official Symbol	CYP2E1
Synonyms	CYP2E1; cytochrome P450 family 2 subfamily E member 1; CPE1; CYP2E; P450-J; P450C2E; cytochrome P450 2E1; 4-nitrophenol 2-hydroxylase; CYP1IE1; cytochrome P450, family 2, subfamily E, polypeptide 1; cytochrome P450, subfamily IIE (ethanol-inducible), polypeptide 1; cytochrome P450-J; flavoprotein-linked monooxygenase; microsomal monooxygenase; xenobiotic monooxygenase; EC 1.14.13.n7; EC 1.14.14.1
Gene ID	1571
mRNA Refseq	NM_000773
Protein Refseq	NP_000764

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MIM	124040
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UniProt ID	P05181
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