

Active Recombinant Human CYP2E1 Protein

Cat. No. CYP2E1-220H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CYP2E1 and human CYP-reductase coexpressed in Escherichia coli.
Species	Human
Source	E.coli
Bio-activity	Cytochrome c Reductase Activity: 274 nmol/min/mg protein #1 P450 Activity Data Activity: Chlorzoxazone 6-hydroxylase #2 Linear with time up to: 15 min #3 Linear with P450 up to: 100 pmol/ml Vmax: 17 pmol/min/pmol CYP Km: 385 μM Notes: #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]. #2: Determined at 120 μM substrate, using a P450 concentration of 50 pmol/ml. #3: Determined at 120 μM substrate, using an incubation time of 5 min.
Residual Host Cell Protein Content	Specific P450 Content: 100 pmol/mg protein
Notes	For laboratory (research) purposes only.

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Storage	Store at -80 centigrade. Avoid frequent temperature changes. Thaw on ice.
Concentration	P450 Concentration: 1.0 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
MIM	124040

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