

Recombinant Human CYP2E1 Protein, GST-tagged

Cat. No. CYP2E1-2265H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CYP2E1 full-length ORF (NP_000764.1, 1 a.a. - 493 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
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. This protein localizes to the endoplasmic reticulum and is induced by ethanol, the diabetic state, and starvation. The enzyme metabolizes both endogenous substrates, such as ethanol, acetone, and acetal, as well as exogenous substrates including benzene, carbon tetrachloride, ethylene glycol, and nitrosamines which are premutagens found in cigarette smoke. Due to its many substrates, this enzyme may be involved in such varied processes as gluconeogenesis, hepatic cirrhosis, diabetes, and cancer. [provided by RefSeq, Jul 2008]
Molecular Mass	83.2 kDa
AA Sequence	MSALGVTVALLVWAAFLLLVSMWRQVHSSWNLPPGPFPLPIIGNLFQLELKNIPKSFT RLAQRFGPVFTLYVGSQRMVVMHGYKAVKEALLDYKDEFSGRGDLP AFHAHRDRG IIFNNGPTWKDIRRFSLTTLRNYGMGKQGNESRIQREAHFLEALRKTQGQPFDPFTF LIGCAPCNVIADILFRKHFDYNDEKFLRLMYLFNENFHLLSTPWLQLYNNFPSFLHYL

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PGSHRKVIKNVAEVKEYVSEVKEHHQSLDPNCPDLTDCLLVEMEKEKHSAERLY
TMDGITVTVADLFFAGTETTSTTLRYGLLILMKYPEIEEKLHEEIDRVIGPSRIPAIDR
QEMPYMDAVVHEIQRFITLVPSNLPHEATRDTIFRGYLIPKGTVVVPTLDSVLYDNQE
FPDPEKFKPEHFLNENGKFKYSDYFKPFSTGKRVCAGEGLARMELFLLLCAILQHFN
LKPLVDPKDIDLSPIHIGFGCIPPRYKLCVIPRS

Applications

Enzyme-linked Immunoabsorbent Assay
Western Blot (Recombinant protein)
Antibody Production
Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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; Cytochrome P450 Family 2 Subfamily E Member 1; Cytochrome P450, Subfamily IIE (Ethanol-Inducible), Polypeptide 1; Cytochrome P450, Family 2, Subfamily E, Polypeptide 1; 4-Nitrophenol 2-Hydroxylase; Cytochrome P450-J; CYP1IE1; CYP2E; Flavoprotein-Linked Monooxygenase; Microsomal Monooxygenase; Xenobiotic Monooxygenase; Cytochrome P450 2E1; EC 1.14.13.n7; EC 1.14.14.1; EC 1.14.13.-; P450C2E; P450-J; CPE1; cytochrome P450 2E1; 4-nitrophenol 2-hydroxylase; CYP1IE1; cytochrome P450, family 2, subfamily E, polypeptide 1; cytochrome P450, subfamily IIE (ethanol-

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inducible), polypeptide 1; cytochrome P450-J; flavoprotein-linked monooxygenase; microsomal monooxygenase; xenobiotic monooxygenase; EC 1.14.13.n7

Gene ID 1571

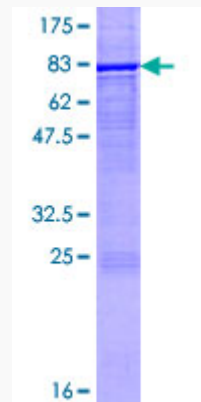
mRNA Refseq NM_000773

Protein Refseq NP_000764

MIM 124040

UniProt ID P05181

Quality Control
Testing:



12.5% SDS-PAGE Stained with Coomassie Blue.

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