

Recombinant Human CYP2E1 protein, His & GST-tagged

Cat. No. CYP2E1-5702H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human CYP2E1 aa. (Pro36~Val271) fused with N-terminal His & GST tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Pro36~Val271
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.
Form	Freeze-dried powder
Molecular Mass	68kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1g (determined by the LAL method)

 Tel: 1-631-559-9269 1-516-512-3133

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Purity	>95%
Characteristic	The isoelectric point is 9.3.
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Concentration	200µg/mL
Storage buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5%Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

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-

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inducible), polypeptide 1; cytochrome P450-J; flavoprotein-linked monooxygenase; microsomal monooxygenase; xenobiotic monooxygenase

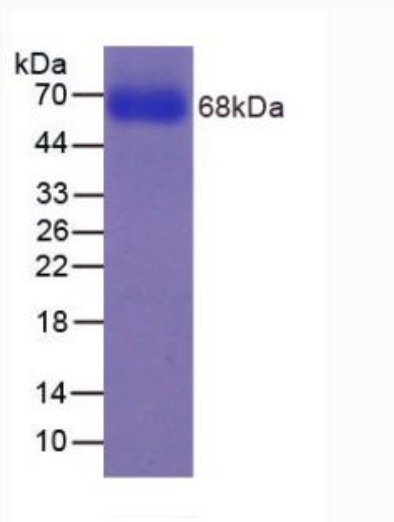
Gene ID [1571](#)

mRNA Refseq [NM_000773.3](#)

Protein Refseq [NP_000764.1](#)

UniProt ID [P05181](#)

SDS-PAGE



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