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CYP2E1 Pre-design Chimera RNAi

Catalog # : H00001571-R01

規格 : [10 nmol] [20 nmol]

List All

Specification

Product Description: Homo sapiens cytochrome P450, family 2, subfamily E, polypeptide 1 (CYP2E1), mRNA.

Reactivity: Human

Supplied Product: DEPC water

Target Refseq: NM_000773

Storage Instruction: Store at -20°C, do not exceed 4 - 5 freeze-thaw cycles to ensure product integrity.

Note: Position of the Chimera RNAi.



Application Image

RNAi Knockdown

Publication Reference

- [dsCheck: highly sensitive off-target search software for double-stranded RNA-mediated RNA interference.](#)
Naito Y, Yamada T, Matsumiya T, Ui-Tei K, Saigo K, Morishita S. *Nucleic Acids Res.* 2005 Jul 1;33(Web Server issue):W589-91.
- [Functional dissection of siRNA sequence by systematic DNA substitution: modified siRNA with a DNA seed arm is a powerful tool for mammalian gene silencing with significantly reduced off-target effect.](#)
Ui-Tei K, Naito Y, Zenno S, Nishi K, Yamato K, Takahashi F, Juni A, Saigo K. *Nucleic Acids Res.* 2008 Apr;36(7):2136-51. Epub 2008 Feb 11.
- [Guidelines for the selection of highly effective siRNA sequences for mammalian and chick RNA interference.](#)
Ui-Tei K, Naito Y, Takahashi F, Haraguchi T, Ohki-Hamazaki H, Juni A, Ueda R, Saigo K. *Nucleic Acids Res.* 2004 Feb 9;32(3):936-48. Print 2004.
- [siDirect: highly effective, target-specific siRNA design software for mammalian RNA interference.](#)
Naito Y, Yamada T, Ui-Tei K, Morishita S, Saigo K. *Nucleic Acids Res.* 2004 Jul 1;32(Web Server issue):W124-9.

Applications

RNAi Knockdown

Gene Information

Entrez GeneID: [1571](#)

Gene Name: CYP2E1

Gene Alias: CPE1,CYP2E,P450-J,P450C2E

Gene cytochrome P450, family 2, subfamily E, polypeptide 1
Description:

Omim ID: [124040](#)

Gene Ontology: [Hyperlink](#)

Gene Summary: 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]

Other Designations: OTTHUMP00000020813,OTTHUMP00000046571,cytochrome P450 2E1,cytochrome P450, subfamily IIE (ethanol-inducible), polypeptide 1,flavoprotein-linked monooxygenase,microsomal monooxygenase,xenobiotic monooxygenase

Gene Pathway

[Arachidonic acid metabolism](#) [Drug metabolism - cytochrome P450](#) [Linoleic acid metabolism](#)
[Metabolic pathways](#) [Metabolism of xenobiotics by cytochrome P450](#)

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