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CYP1A1 Pre-design Chimera RNAi

Catalog # : H00001543-R01

規格 : [10 nmol] [20 nmol]

List All

Specification

Product Description: Homo sapiens cytochrome P450, family 1, subfamily A, polypeptide 1 (CYP1A1), mRNA.

Reactivity: Human

Supplied Product: DEPC water

Target Refseq: NM_000499

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: 1543

Gene Name: CYP1A1

Gene Alias: AHH,AHRR,CP11,CYP1,P1-450,P450-C,P450DX

Gene cytochrome P450, family 1, subfamily A, polypeptide 1

Description:

Omim ID: [108330](#)

Gene Ontology: [Hyperlink](#)

Gene Summary: This gene, CYP1A1, 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 its expression is induced by some polycyclic aromatic hydrocarbons (PAHs), some of which are found in cigarette smoke. The enzyme's endogenous substrate is unknown; however, it is able to metabolize some PAHs to carcinogenic intermediates. The gene has been associated with lung cancer risk. A related family member, CYP1A2, is located approximately 25 kb away from CYP1A1 on chromosome 15. [provided by RefSeq]

Other Designations: aryl hydrocarbon hydroxylase, cytochrome P1-450, dioxin-inducible, cytochrome P450 1A1, cytochrome P450, subfamily I (aromatic compound-inducible), polypeptide 1, flavoprotein-linked monooxygenase, xenobiotic monooxygenase

Gene Pathway

[Metabolism of xenobiotics by cytochrome P450](#) [Retinol metabolism](#) [Tryptophan metabolism](#)

Related Disease

[Abortion, Habitual](#) [Acute Disease](#) [Adenocarcinoma](#) [Adenocarcinoma, Clear Cell](#) [Adenocarcinoma, Mucinous](#) [Adenoma](#) [Liver Cell](#) [Alcoholism](#) [Alcohol-Related Disorders](#) [Alzheimer Disease](#) [Alzheimer disease](#) [Amyotrophic Lateral Sclerosis](#) [Amyotrophic lateral sclerosis](#) [Anemia, Aplastic](#) [Anemia, Iron-Deficiency](#) [Arteriosclerosis](#) [Arthritis, Psoriatic](#) [Arthritis, Reactive](#) [Arthritis, Rheumatoid](#)

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