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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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CYP11A1 Pre-design Chimera RNAi

Catalog # : H00001583-R01

規格 : [10 nmol] [20 nmol]

List All

Specification

Product Description: Homo sapiens cytochrome P450, family 11, subfamily A, polypeptide 1 (CYP11A1), nuclear gene encoding mitochondrial protein, mRNA.

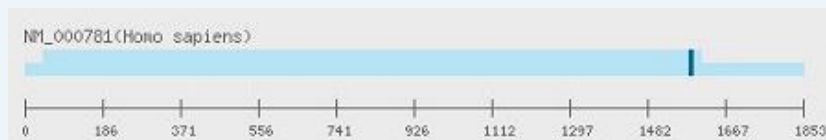
Reactivity: Human

Supplied Product: DEPC water

Target Refseq: NM_000781

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: 1583

Gene Name: CYP11A1

Gene Alias: CYP11A,P450SCC

Gene cytochrome P450, family 11, subfamily A, polypeptide 1

Description:

Omim ID: [118485](#), [201710](#)

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 mitochondrial inner membrane and catalyzes the conversion of cholesterol to pregnenolone, the first and rate-limiting step in the synthesis of the steroid hormones. Two transcript variants encoding different isoforms have been found for this gene. The cellular location of the smaller isoform is unclear since it lacks the mitochondrial-targeting transit peptide. [provided by RefSeq]

Other Designations: cholesterol 20-22 desmolase,cholesterol monooxygenase (side-chain cleaving),cytochrome P450, subfamily XIa,cytochrome P450, subfamily XIa (cholesterol side chain cleavage),cytochrome P450C11A1,steroid 20-22-lyase

Gene Pathway

[C21-Steroid hormone metabolism](#) [Metabolic pathways](#)

Related Disease

[Adenocarcinoma](#) [Asperger Syndrome](#) [Autistic Disorder](#) [Breast cancer](#) [Breast Neoplasms](#) [Breast Neoplasms, Male](#) [Carcinoma, Non-Small-Cell Lung](#) [Carcinoma, Squamous Cell](#) [Celiac Disease](#) [Colorectal Neoplasms](#) [Disease Progression](#) [Ductus Arteriosus, Patent](#) [Endometrial Neoplasms](#) [Fibrocystic Breast Disease](#) [Genetic Predisposition to Disease](#) [Genital Neoplasms, Male](#) [Hyperandrogenism](#) [Hypertension](#) [Infant, Premature, Diseases](#)

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