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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

linkedin.com/company/szaboscandic

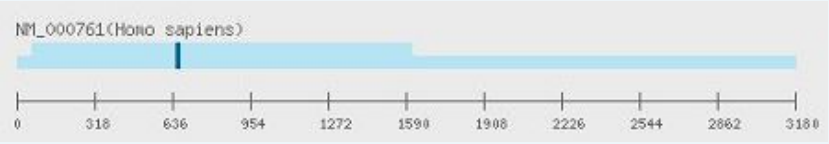
CYP1A2 Pre-design Chimera RNAi

Catalog # : H00001544-R01 **規格 :** [10 nmol] [20 nmol]

List All

Specification

Product Description:	Homo sapiens cytochrome P450, family 1, subfamily A, polypeptide 2 (CYP1A2), mRNA.
Reactivity:	Human
Supplied Product:	DEPC water
Target Refseq:	NM_000761
Storage Instruction:	Store at -20°C, do not exceed 4 - 5 freeze-thaw cycles to ensure product integrity.
Note:	Position of the Chimera RNAi.



Publication Reference

1. 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.
2. 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.
3. 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.
4. 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:	1544
Gene Name:	CYP1A2
Gene Alias:	CP12,P3-450,P450(PA)

Application Image

RNAi Knockdown

Gene Description:	cytochrome P450, family 1, subfamily A, polypeptide 2
Omim ID:	124060
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. The protein encoded by this gene 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. Other xenobiotic substrates for this enzyme include caffeine, aflatoxin B1, and acetaminophen. The transcript from this gene contains four Alu sequences flanked by direct repeats in the 3' untranslated region. [provided by RefSeq
Other Designations:	P450 form 4,aryl hydrocarbon hydroxylase,cytochrome P450, subfamily I (aromatic compound-inducible), polypeptide 2,dioxin-inducible P3-450,flavoprotein-linked monooxygenase,microsomal monooxygenase,xenobiotic monooxygenase

Gene Pathway

Caffeine metabolism Drug metabolism - cytochrome P450 Linoleic acid metabolism Metabolic pathways Metabolism of xenobiotics by cytochrome P450 Retinol metabolism Tryptophan metabolism

Related Disease

Abortion, Habitual Adenocarcinoma Adenoma Adenoma, Liver Cell Amyotrophic Lateral Sclerosis Amyotrophic lateral sclerosis Arrhythmia Arthritis, Rheumatoid Asthma Asthma Attention Breast cancer Breast Neoplasms Carcinoma, Hepatocellular Carcinoma, Pancreatic Ductal Carcinoma, Renal Cell Carcinoma, Squamous Cell Carcinoma, Transitional Cell Cardiovascular Diseases

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