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HIF1A Pre-design Chimera RNAi

Catalog # : H00003091-R01

規格 : [10 nmol] [20 nmol]

List All

Specification

Product Description: Homo sapiens hypoxia-inducible factor 1, alpha subunit (basic helix-loop-helix transcription factor) (HIF1A), transcript variant 1, mRNA.

Reactivity: Human

Supplied Product: DEPC water

Target Refseq: NM_001530

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

Note: Position of the Chimera RNAi.
The related RNAi products listed below were designed from different accession number but sharing the same RNAi sequence.



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: [3091](#)

Gene Name: HIF1A

Gene Alias: HIF-1alpha,HIF1,HIF1-ALPHA,MOP1,PASD8,bHLHe78

Gene Description: hypoxia inducible factor 1, alpha subunit (basic helix-loop-helix transcription factor)

Omim ID: [603348](#)

Gene Ontology: [Hyperlink](#)

Gene Summary: Hypoxia-inducible factor-1 (HIF1) is a transcription factor found in mammalian cells cultured under reduced oxygen tension that plays an essential role in cellular and systemic homeostatic responses to hypoxia. HIF1 is a heterodimer composed of an alpha subunit and a beta subunit. The beta subunit has been identified as the aryl hydrocarbon receptor nuclear translocator (ARNT). This gene encodes the alpha subunit of HIF-1. Overexpression of a natural antisense transcript (aHIF) of this gene has been shown to be associated with nonpapillary renal carcinomas. Two alternative transcripts encoding different isoforms have been identified. [provided by RefSeq]

Other Designations: ARNT interacting protein,hypoxia-inducible factor 1, alpha subunit,hypoxia-inducible factor 1, alpha subunit (basic helix-loop-helix transcription factor),member of PAS superfamily 1

Gene Pathway

[mTOR signaling pathway](#) [Pathways in cancer](#) [Renal cell carcinoma](#)

Related Disease

[Acute Disease](#) [Adenocarcinoma](#) [Altitude Sickness](#) [Angina Pectoris](#) [Anoxia](#) [Breast cancer](#) [Breast Neoplasms](#) [Carcinoma, Hepatocellular](#) [Carcinoma, Intraductal, Noninfiltrating](#) [Carcinoma, Non-Small-Cell Lung](#) [Carcinoma, Renal Cell](#) [Carcinoma, Squamous Cell](#) [Carcinoma, Transitional Cell](#) [Cardiovascular Diseases](#) [Cellulitis](#) [Cleft Lip](#) [Cleft Palate](#) [Colorectal Neoplasms](#) [Coronary Disease](#)

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