



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## HK1 Pre-design Chimera RNAi

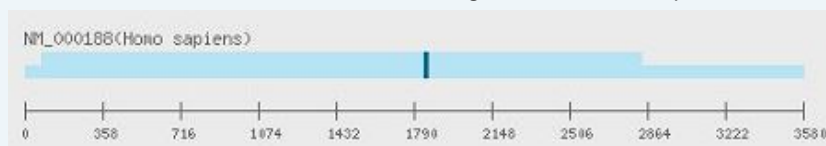
Catalog # : H00003098-R09

規格 : [ 10 nmol ] [ 20 nmol ]

List All

### Specification

<b>Product Description:</b>	Homo sapiens hexokinase 1 (HK1), nuclear gene encoding mitochondrial protein, transcript variant 1, mRNA.
<b>Reactivity:</b>	Human
<b>Supplied Product:</b>	DEPC water
<b>Target Refseq:</b>	NM_000188
<b>Target Region:</b>	Coding sequence
<b>Storage Instruction:</b>	Store at -20°C, do not exceed 4 - 5 freeze-thaw cycles to ensure product integrity.
<b>Note:</b>	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: [3098](#)

**Gene Name:** HK1

**Gene Alias:** HK1-ta, HK1-tb, HK1-tc, HKI, HXK1

**Gene** hexokinase 1

**Description:**

**Omim ID:** [142600](#)

**Gene Ontology:** [Hyperlink](#)

**Gene Summary:** Hexokinases phosphorylate glucose to produce glucose-6-phosphate, the first step in most glucose metabolism pathways. This gene encodes a ubiquitous form of hexokinase which localizes to the outer membrane of mitochondria. Mutations in this gene have been associated with hemolytic anemia due to hexokinase deficiency. Alternative splicing of this gene results in five transcript variants which encode different isoforms, some of which are tissue-specific. Each isoform has a distinct N-terminus; the remainder of the protein is identical among all the isoforms. A sixth transcript variant has been described, but due to the presence of several stop codons, it is not thought to encode a protein. [provided by RefSeq]

**Other Designations:** OTTHUMP00000019725, brain form hexokinase, glycolytic enzyme

### Gene Pathway

[Amino sugar and nucleotide sugar metabolism](#)

[Biosynthesis of alkaloids derived from histidine and purine](#)

[Biosynthesis of alkaloids derived from ornithine, lysine and nicotinic acid](#)

[Biosynthesis of alkaloids derived from shikimate pathway](#)

[Biosynthesis of alkaloids derived from terpenoid and polyketide](#)

[Biosynthesis of phenylpropanoids](#) [Biosynthesis of plant hormones](#)

[Biosynthesis of terpenoids and steroids](#) [Fructose and mannose metabolism](#)

[Galactose metabolism](#) [Glycolysis / Gluconeogenesis](#) [Insulin signaling pathway](#)

[Metabolic pathways](#) [Starch and sucrose metabolism](#) [Streptomycin biosynthesis](#)

[Type II diabetes mellitus](#)

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