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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PKLR Pre-design Chimera RNAi

Catalog # : H00005313-R05

規格 : [10 nmol] [20 nmol]

List All

Specification

Product Description: Homo sapiens pyruvate kinase, liver and RBC (PKLR), nuclear gene encoding mitochondrial protein, transcript variant 2, mRNA.

Reactivity: Human

Supplied Product: DEPC water

Target Refseq: NM_181871

Target Region: Coding sequence

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: [5313](#)

Gene Name: PKLR

Gene Alias: PK1,PKL,PKR,PKRL,RPK

Gene Description: pyruvate kinase, liver and RBC

Omim ID: [266200](#), [609712](#)

Gene Ontology: [Hyperlink](#)

Gene Summary: The protein encoded by this gene is a pyruvate kinase that catalyzes the transphosphorylation of phosphoenolpyruvate into pyruvate and ATP, which is the rate-limiting step of glycolysis. Defects in this enzyme, due to gene mutations or genetic variations, are the common cause of chronic hereditary nonspherocytic hemolytic anemia (CNSHA or HNSHA). Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

Other Designations: R-type/L-type pyruvate kinase,pyruvate kinase 1,pyruvate kinase isozyme R/L,pyruvate kinase type L,pyruvate kinase, liver and RBC type,pyruvate kinase, liver and blood cell,red cell/liver pyruvate kinase

Gene Pathway

[Glycolysis / Gluconeogenesis](#) [Insulin signaling pathway](#)
[Maturity onset diabetes of the young](#) [Metabolic pathways](#) [Purine metabolism](#)
[Pyruvate metabolism](#) [Type II diabetes mellitus](#)

Related Disease

[Diabetes Mellitus](#) [Diabetes Mellitus, Type 2](#) [Drug Toxicity](#) [Edema](#)
[Genetic Predisposition to Disease](#) [Hypercholesterolemia](#) [Metabolism, Inborn Errors](#) [Obesity](#)
[Obesity](#) [Overweight](#)