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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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ATP1B1 Pre-design Chimera RNAi

Catalog # : H00000481-R03

規格 : [10 nmol] [20 nmol]

List All

Specification

Product Description: Homo sapiens ATPase, Na⁺/K⁺ transporting, beta 1 polypeptide (ATP1B1), transcript variant 2, mRNA.

Reactivity: Human

Supplied Product: DEPC water

Target Refseq: NM_001001787

Target Region: 3' Untranslated Region (3'UTR)

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: [481](#)

Gene Name: ATP1B1

Gene Alias: ATP1B,MGC1798

Gene Description: ATPase, Na⁺/K⁺ transporting, beta 1 polypeptide

Omim ID: [145500](#), [182330](#)

Gene Ontology: [Hyperlink](#)

Gene Summary: The protein encoded by this gene belongs to the family of Na⁺/K⁺ and H⁺/K⁺ ATPases beta chain proteins, and to the subfamily of Na⁺/K⁺ -ATPases. Na⁺/K⁺ -ATPase is an integral membrane protein responsible for establishing and maintaining the electrochemical gradients of Na and K ions across the plasma membrane. These gradients are essential for osmoregulation, for sodium-coupled transport of a variety of organic and inorganic molecules, and for electrical excitability of nerve and muscle. This enzyme is composed of two subunits, a large catalytic subunit (alpha) and a smaller glycoprotein subunit (beta). The beta subunit regulates, through assembly of alpha/beta heterodimers, the number of sodium pumps transported to the plasma membrane. The glycoprotein subunit of Na⁺/K⁺ -ATPase is encoded by multiple genes. This gene encodes a beta 1 subunit. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq]

Other Designations: Beta 1-subunit of Na(+),K(+)-ATPase,Na⁺/K⁺ -ATPase beta 1 subunit,Na, K-ATPase beta-1 polypeptide,Na,K-ATPase beta 1 subunit,OTTHUMP00000032537,OTTHUMP00000032538,adenosinetriphosphatase,sodium/potassium-dependent ATPase beta-1 subunit,sodium/potassium-tr

Gene Pathway

[Cardiac muscle contraction](#)

Related Disease

[Adenocarcinoma](#) [Arrhythmias](#), [Cardiac Cardiovascular Diseases](#) [Diabetes Mellitus, Type 2](#) [Edema](#) [Esophageal Neoplasms](#) [Genetic Predisposition to Disease](#) [Graves Disease](#) [Hypertension](#) [Hypokalemic Periodic Paralysis](#) [Long QT Syndrome](#) [Long QT syndrome](#) [Osteoporosis](#)