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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
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- Expressversand

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ATP1A1 Pre-design Chimera RNAi

Catalog # : H00000476-R03

規格 : [10 nmol] [20 nmol]

List All

Specification

Product Description: Homo sapiens ATPase, Na⁺/K⁺ transporting, alpha 1 polypeptide (ATP1A1), transcript variant 1, mRNA.

Reactivity: Human

Supplied Product: DEPC water

Target Refseq: NM_000701

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: [476](#)

Gene Name: ATP1A1

Gene Alias: MGC3285,MGC51750

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

Omim ID: [182310](#)

Gene Ontology: [Hyperlink](#)

Gene Summary: The protein encoded by this gene belongs to the family of P-type cation transport ATPases, 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 catalytic subunit of Na⁺/K⁺ -ATPase is encoded by multiple genes. This gene encodes an alpha 1 subunit. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

Other Designations: G00-119-711,Na⁺, K⁺ ATPase alpha subunit,Na⁺/K⁺ -ATPase alpha 1 subunit,Na⁺/K⁺ ATPase 1,Na, K-ATPase, alpha-A catalytic polypeptide,Na,K-ATPase alpha-1 subunit,Na,K-ATPase catalytic subunit alpha-A protein,Na/K-ATPase alpha subunit fragment (aa 1-149),OTT

Gene Pathway

[Cardiac muscle contraction](#)

Related Disease

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[Diabetes Mellitus, Type 1](#) [Diabetes Mellitus, Type 2](#) [Edema](#)
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