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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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ACE Pre-design Chimera RNAi

Catalog # : H00001636-R01

規格 : [10 nmol] [20 nmol]

List All

Specification

Product Description: Homo sapiens angiotensin I converting enzyme (peptidyl-dipeptidase A) 1 (ACE), transcript variant 1, mRNA.

Reactivity: Human

Supplied Product: DEPC water

Target Refseq: NM_000789

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: [1636](#)

Gene Name: ACE

Gene Alias: ACE1,CD143,DCP,DCP1,MGC26566

Gene Description: angiotensin I converting enzyme (peptidyl-dipeptidase A) 1

Omim ID: [104300](#), [106180](#), [267430](#), [603933](#)

Gene Ontology: [Hyperlink](#)

Gene Summary: This gene encodes an enzyme involved in catalyzing the conversion of angiotensin I into a physiologically active peptide angiotensin II. Angiotensin II is a potent vasopressor and aldosterone-stimulating peptide that controls blood pressure and fluid-electrolyte balance. This enzyme plays a key role in the renin-angiotensin system. Many studies have associated the presence or absence of a 287 bp Alu repeat element in this gene with the levels of circulating enzyme or cardiovascular pathophysiologies. Two most abundant alternatively spliced variants of this gene encode two isozymes - the somatic form and the testicular form that are equally active. Multiple additional alternatively spliced variants have been identified but their full length nature has not been determined. [provided by RefSeq]

Other Designations: CD143 antigen,angiotensin I converting enzyme,angiotensin converting enzyme, somatic isoform,carboxycathepsin,dipeptidyl carboxypeptidase 1,kininase II,peptidase P,peptidyl-dipeptidase A,testicular ECA

Gene Pathway

[Hypertrophic cardiomyopathy \(HCM\)](#) [Renin-angiotensin system](#)

Related Disease

[Abortion, Habitual](#) [Abortion, Spontaneous](#) [Accelerated Idioventricular Rhythm](#) [Acidosis](#) [Acromegaly](#) [Acute Disease](#) [Adenocarcinoma](#) [Adenoma](#) [Adrenal Gland Neoplasms](#) [Aggressive Periodontitis](#) [Albuminuria](#) [Alcohol](#) [Amnestic Disorder](#) [Alcoholism](#) [Altitude Sickness](#) [Alzheimer Disease](#) [Alzheimer disease](#) [Amnesia](#) [Anemia](#) [Anemia, Sickle Cell](#)

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