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- Mindermengenzuschlag
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DBI Pre-design Chimera RNAi

Catalog # : H00001622-R01

規格 : [10 nmol] [20 nmol]

List All

Specification

Product Description: Homo sapiens diazepam binding inhibitor (GABA receptor modulator, acyl-Coenzyme A binding protein) (DBI), mRNA.

Reactivity: Human

Supplied Product: DEPC water

Target Refseq: NM_020548

Storage Instruction: Store at -20°C, do not exceed 4 - 5 freeze-thaw cycles to ensure product integrity.

Note: Position of the Chimera RNAi.



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: [1622](#)

Gene Name: DBI

Gene Alias: ACBD1,ACBP,CCK-RP,EP,MGC70414

Gene Description: diazepam binding inhibitor (GABA receptor modulator, acyl-Coenzyme A binding protein)

Omim ID: [125950](#)

Gene Ontology: [Hyperlink](#)

Gene Summary: This gene encodes diazepam binding inhibitor, a protein that is regulated by hormones and is involved in lipid metabolism and the displacement of beta-carbolines and benzodiazepines, which modulate signal transduction at type A gamma-aminobutyric acid receptors located in brain synapses. The protein is conserved from yeast to mammals, with the most highly conserved domain consisting of seven contiguous residues that constitute the hydrophobic binding site for medium- and long-chain acyl-Coenzyme A esters. Diazepam binding inhibitor is also known to mediate the feedback regulation of pancreatic secretion and the postprandial release of cholecystokinin, in addition to its role as a mediator in corticotropin-dependent adrenal steroidogenesis. Three pseudogenes located on chromosomes 6, 8 and 16 have been identified. Multiple transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq]

Other Designations: GABA receptor modulator,acyl coenzyme A binding protein,acyl-Coenzyme A binding domain containing 1,cholecystokinin-releasing peptide, trypsin-sensitive,diazepam binding inhibitor,diazepam binding inhibitor, splice form 1c,endozepine

Gene Pathway

[PPAR signaling pathway](#)

Related Disease

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