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GSTZ1 Pre-design Chimera RNAi

Catalog # : H00002954-R03

規格 : [10 nmol] [20 nmol]

List All

Specification

Product Description: Homo sapiens glutathione transferase zeta 1 (maleylacetoacetate isomerase) (GSTZ1), transcript variant 3, mRNA.

Reactivity: Human

Supplied Product: DEPC water

Target Refseq: NM_001513

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: [2954](#)

Gene Name: GSTZ1

Gene Alias: GSTZ1-1,MAAI,MAI,MGC2029

Gene glutathione transferase zeta 1

Description:

Omim ID: [603758](#)

Gene Ontology: [Hyperlink](#)

Gene Summary: This gene is a member of the glutathione S-transferase (GSTs) super-family which encodes multifunctional enzymes important in the detoxification of electrophilic molecules, including carcinogens, mutagens, and several therapeutic drugs, by conjugation with glutathione. This enzyme also plays a significant role in the catabolism of phenylalanine and tyrosine. Thus defects in this enzyme may lead to severe metabolic disorders including alkaptonuria, phenylketonuria and tyrosinaemia. Several transcript variants of this gene encode multiple protein isoforms. [provided by RefSeq]

Other Designations: S-(hydroxyalkyl)glutathione lyase,glutathione S-alkyltransferase,glutathione S-aralkyltransferase,glutathione S-aryltransferase,glutathione s-transferase Zeta 1,maleylacetoacetate isomerase,maleylacetone isomerase

Gene Pathway

[Drug metabolism - cytochrome P450](#) [Glutathione metabolism](#) [Metabolic pathways](#)
[Metabolism of xenobiotics by cytochrome P450](#) [Styrene degradation](#) [Tyrosine metabolism](#)

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