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Zuschläge

- Mindermengenzuschlag
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GSTM1 Pre-design Chimera RNAi

Catalog # : H00002944-R02

規格 : [10 nmol] [20 nmol]

List All

Specification

Product Description: Homo sapiens glutathione S-transferase M1 (GSTM1), transcript variant 2, mRNA.

Reactivity: Human

Supplied Product: DEPC water

Target Refseq: NM_146421

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: 2944

Gene Name: GSTM1

Gene Alias: GST1,GSTM1-1,GSTM1a-1a,GSTM1b-1b,GTH4,GTM1,H-B,MGC26563,MU,MU-1

Gene glutathione S-transferase mu 1
Description:

Omim ID: [138350](#)

Gene Ontology: [Hyperlink](#)

Gene Summary: Cytosolic and membrane-bound forms of glutathione S-transferase are encoded by two distinct supergene families. At present, eight distinct classes of the soluble cytoplasmic mammalian glutathione S-transferases have been identified: alpha, kappa, mu, omega, pi, sigma, theta and zeta. This gene encodes a glutathione S-transferase that belongs to the mu class. The mu class of enzymes functions in the detoxification of electrophilic compounds, including carcinogens, therapeutic drugs, environmental toxins and products of oxidative stress, by conjugation with glutathione. The genes encoding the mu class of enzymes are organized in a gene cluster on chromosome 1p13.3 and are known to be highly polymorphic. These genetic variations can change an individual's susceptibility to carcinogens and toxins as well as affect the toxicity and efficacy of certain drugs. Null mutations of this class mu gene have been linked with an increase in a number of cancers, likely due to an increased susceptibility to environmental toxins and carcinogens. Multiple protein isoforms are encoded by transcript variants of this gene. [provided by RefSeq]

Other Designations: GST class-mu 1,HB subunit
4,OTTHUMP00000013346,OTTHUMP00000013347,S-(hydroxyalkyl)glutathione lyase,glutathione S-alkyltransferase,glutathione S-aralkyltransferase,glutathione S-aryltransferase,glutathione S-transferase M1

Gene Pathway

[Drug metabolism - cytochrome P450](#) [Glutathione metabolism](#)
[Metabolism of xenobiotics by cytochrome P450](#)

Related Disease

[Abnormalities, Drug-Induced](#) [Abortion, Habitual](#) [Absenteeism](#) [Acute Disease](#)
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[Adenocarcinoma, Clear Cell](#) [Adenocarcinoma, Follicular](#) [Adenoma](#) [Adenoma, Liver Cell](#)
[Adenoma, Oxyphilic](#) [Adenomatous Polyposis Coli](#) [Airway Remodeling](#)
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