GLOD5 siRNA (m): sc-145427



The Power to Question

BACKGROUND

Glyoxalase domain-containing proteins are members of the glyoxalase I protein family that function in the removal of methylglyoxal (MGO), an $\alpha\textsc{-}\textsc--}\textsc{-}$

REFERENCES

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- Kalousova, M., Germanova, A., Jachymova, M., Mestek, O., Tesao, V. and Zima, T. 2007. A419C (E111A) polymorphism of the glyoxalase I gene is associated with vascular complications in chronic hemodialysis patients. Ann. N.Y. Acad. Sci. 1126: 268-271.

CHROMOSOMAL LOCATION

Genetic locus: Glod5 (mouse) mapping to X A1.1.

PRODUCT

GLOD5 siRNA (m) is a target-specific 19-25 nt siRNA designed to knock down gene expression. Each vial contains 3.3 nmol of lyophilized siRNA, sufficient for a 10 μM solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see GLOD5 shRNA Plasmid (m): sc-145427-SH and GLOD5 shRNA (m) Lentiviral Particles: sc-145427-V as alternate gene silencing products.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.

STORAGE AND RESUSPENSION

Store lyophilized siRNA duplex at -20° C with desiccant. Stable for at least one year from the date of shipment. Once resuspended, store at -20° C, avoid contact with RNAses and repeated freeze thaw cycles.

Resuspend lyophilized siRNA duplex in 330 μ l of the RNAse-free water provided. Resuspension of the siRNA duplex in 330 μ l of RNAse-free water makes a 10 μ M solution in a 10 μ M Tris-HCl, pH 8.0, 20 mM NaCl, 1 mM EDTA buffered solution.

APPLICATIONS

 $\mbox{GLOD5}$ siRNA (m) is recommended for the inhibition of GLOD5 expression in mouse cells.

SUPPORT REAGENTS

For optimal siRNA transfection efficiency, Santa Cruz Biotechnology's siRNA Transfection Reagent: sc-29528 (0.3 ml), siRNA Transfection Medium: sc-36868 (20 ml) and siRNA Dilution Buffer: sc-29527 (1.5 ml) are recommended. Control siRNAs or Fluorescein Conjugated Control siRNAs are available as 10 µM in 66 µl. Each contain a scrambled sequence that will not lead to the specific degradation of any known cellular mRNA. Fluorescein Conjugated Control siRNAs include: sc-36869, sc-44239, sc-44240 and sc-44241. Control siRNAs include: sc-37007, sc-44230, sc-44231, sc-44232, sc-44233, sc-44234, sc-44235, sc-44236, sc-44237 and sc-44238.

RT-PCR REAGENTS

Semi-quantitative RT-PCR may be performed to monitor GLOD5 gene expression knockdown using RT-PCR Primer: GLOD5 (m)-PR: sc-145427-PR (20 μ l). Annealing temperature for the primers should be 55-60° C and the extension temperature should be 68-72° C.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

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