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GALP siRNA (m): sc-145319

BACKGROUND

The galanin family of proteins are key members for inflammatory processes and cell proliferation, and may function as potential biomarkers for colon cancer. Produced in both neuronal and nonneuronal cells in the skin, members of the galanin family include galanin, galanin-message associated peptide, galanin-like peptide and alarin. GALP, also known as galanin-like peptide, is a 116 amino acid secreted protein belonging to the galanin family. Mainly produced in the arcuate nucleus of the hypothalamus (ARC) and the posterior pituitary, GALP is thought to function in CNS homeostatic processes, including the regulation of gonadotropin-releasing hormone secretion. GALP binds to the G protein-coupled galanin receptors, including GALR1, GALR2 and GALR3, and may also play a role in energy metabolism, with significant implications towards obesity. GALP exists as two alternatively spliced isoforms.

REFERENCES

1. Kim, K.Y., Kee, M.K., Chong, S.A. and Nam, M.J. 2007. Galanin is up-regulated in colon adenocarcinoma. *Cancer Epidemiol. Biomarkers Prev.* 16: 2373-2378.
2. Bauer, J.W., Lang, R., Jakab, M. and Kofler, B. 2008. Galanin family of peptides in skin function. *Cell. Mol. Life Sci.* 65: 1820-1825.
3. Bauer, J.W., Lang, R., Jakab, M. and Kofler, B. 2010. Galanin family of peptides in skin function. *Exp. Suppl.* 102: 51-59.
4. Lawrence, C.B. and Fraley, G.S. 2010. Galanin-like peptide: neural regulator of energy homeostasis and reproduction. *Exp. Suppl.* 102: 263-280.
5. Shiba, K., Kageyama, H., Takenoya, F. and Shioda, S. 2010. Galanin-like peptide and the regulation of feeding behavior and energy metabolism. *FEBS J.* 277: 5006-5013.
6. Shioda, S., Kageyama, H., Takenoya, F. and Shiba, K. 2010. Galanin-like peptide: a key player in the homeostatic regulation of feeding and energy metabolism? *Int. J. Obes.* 35: 619-628.
7. Lawrence, C. and Fraley, G.S. 2011. Galanin-like peptide (GALP) is a hypothalamic regulator of energy homeostasis and reproduction. *Front. Neuroendocrinol.* 32: 1-9.
8. Lang, R. and Kofler, B. 2011. The galanin peptide family in inflammation. *Neuropeptides* 45: 1-8.

CHROMOSOMAL LOCATION

Genetic locus: Galp (mouse) mapping to 7 A1.

PRODUCT

GALP 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 μ M solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see GALP shRNA Plasmid (m): sc-145319-SH and GALP shRNA (m) Lentiviral Particles: sc-145319-V as alternate gene silencing products.

RESEARCH USE

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

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

GALP siRNA (m) is recommended for the inhibition of GALP 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 μ M in 66 μ l. 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 GALP gene expression knockdown using RT-PCR Primer: GALP (m)-PR: sc-145319-PR (20 μ l). Annealing temperature for the primers should be 55-60° C and the extension temperature should be 68-72° C.

PROTOCOLS

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