



GALP (m2): 293T Lysate: sc-178651

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. *EXS* 102: 51-59.
4. Lawrence, C.B. and Fraley, G.S. 2010. Galanin-like peptide: neural regulator of energy homeostasis and reproduction. *EXS* 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 (m2): 293T Lysate represents a lysate of mouse GALP transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

GALP (m2): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive GALP antibodies. Recommended use: 10-20 µl per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

RESEARCH USE

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

PROTOCOLS

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