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G_{αs} siRNA (m): sc-41757

BACKGROUND

Heterotrimeric G proteins function to relay information from cell surface receptors to intracellular effectors. Each of a very broad range of receptors specifically detects an extracellular stimulus (a photon, pheromone, odorant, hormone or neurotransmitter) while the effectors (e.g. adenylyl cyclase), which act to generate one or more intracellular messengers, are less numerous. In mammals, G protein α , β and γ polypeptides are encoded by at least 16, 4 and 7 genes, respectively. Most interest in G proteins has been focused on their α subunits, since these proteins bind and hydrolyze GTP and most obviously regulate the activity of the best studied effectors. The G_s subfamily of G_α subunits includes two closely related proteins, G_{αs} and G_{αolf}, which respectively stimulate adenylyl cyclase and mediate response to olfactory stimuli.

REFERENCES

1. Jones, D.T., et al. 1990. Biochemical characterization of three stimulatory GTP-binding proteins. The large and small forms of G_s and the olfactory-specific G protein, G_{olf}. *J. Biol. Chem.* 265: 2671-2676.
2. Simon, M. I., et al. 1991. Diversity of G proteins in signal transduction. *Science* 252: 802-808.
3. Iñiguez-Lluhi, J.A., et al. 1992. G protein $\beta\gamma$ subunits synthesized in Sf9 cells. *J. Biol. Chem.* 267: 23409-23417.
4. Cali, J.J., et al. 1992. Selective tissue distribution of G protein γ subunits, including a new form of the γ subunits identified by cDNA cloning. *J. Biol. Chem.* 267: 24023-24027.
5. McLaughlin, S.K., et al. 1992. Gustducin is a taste-cell-specific G protein closely related to the transducins. *Nature* 357: 563-569.
6. von Weizsäcker, E., et al. 1992. Diversity among the β subunits of heterotrimeric GTP-binding proteins: characterization of a novel β subunit cDNA. *Biochem. Biophys. Res. Commun.* 183: 350-356.
7. Kleuss, C., et al. 1992. Different β subunits determine G protein interaction with transmembrane receptors. *Nature* 358: 424-426.

CHROMOSOMAL LOCATION

Genetic locus: Gnas (mouse) mapping to 2 H4.

PRODUCT

G_{αs} siRNA (m) is a pool of 3 target-specific 19-25 nt siRNAs 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 G_{αs} shRNA Plasmid (m): sc-41757-SH and G_{αs} shRNA (m) Lentiviral Particles: sc-41757-V as alternate gene silencing products.

For independent verification of G_{αs} (m) gene silencing results, we also provide the individual siRNA duplex components. Each is available as 3.3 nmol of lyophilized siRNA. These include: sc-41757A, sc-41757B and sc-41757C.

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

G_{αs} siRNA (m) is recommended for the inhibition of G_{αs} expression in mouse