

NPB siRNA (h): sc-93969

BACKGROUND

NPB (neuropeptide B), also known as PPL7 (preproprotein L7) or PPNPB (pre-neuropeptide B), is a 125 amino acid secreted protein that belongs to the neuropeptide B/W family and may be involved in the regulation of feeding, neuroendocrine system, memory, learning and in the afferent pain pathway. While widely expressed in substantia nigra, hypothalamus, hippocampus, spinal cord, placenta, fetal brain and colorectal adenocarcinoma, NPB is expressed at lower levels in testis, uterus and ovary. The gene that encodes NPB consists of about 710 bases and maps to human chromosome 17q25.3. Comprising over 2.5% of the human genome, chromosome 17 consists of about 81 million bases, encodes over 1,200 genes and has the highest gene density in the genome. Chromosome 17 is also enriched in segmental duplications, ranking third in density among the autosomes.

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CHROMOSOMAL LOCATION

Genetic locus: NPB (human) mapping to 17q25.3.

PRODUCT

NPB siRNA (h) 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 NPB shRNA Plasmid (h): sc-93969-SH and NPB shRNA (h) Lentiviral Particles: sc-93969-V as alternate gene silencing 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

NPB siRNA (h) is recommended for the inhibition of NPB expression in human 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.

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.