SANTA CRUZ BIOTECHNOLOGY, INC.

EIF3S6IP siRNA (h): sc-77252

BACKGROUND

Int-6, also designated eIF3e, eIF3-p46, eIF3-p48 or eukaryotic translation initiation factor 3, subunit 6, regulates translation and protein degradation through binding with three complexes: the eukaryotic translation initiation factor 3 (eIF3) complex, the proteasome regulatory lid and the constitutive photomorphogenesis 9 signalosome. eIF3 is a complex that mediates assembly of 40S ribosomal subunits on mRNA bearing either a 5'-cap or an internal ribosome entry site (IRES). EIF3S6IP (eukaryotic translation initiation factor 3 subunit E-interacting protein) is a 564 amino acid protein that can be phosphorylated on a tyrosine residue. EIF3S6IP is tightly associated with Int-6, and therefore, also interacts with eIF3, suggesting that EIF3S6IP may play a regulatory role during translation and/or protein degradation.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: EIF3L (human) mapping to 22q13.1.

PROTOCOLS

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

PRODUCT

EIF3S6IP siRNA (h) 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 µM solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see EIF3S6IP shRNA Plasmid (h): sc-77252-SH and EIF3S6IP shRNA (h) Lentiviral Particles: sc-77252-V as alternate gene silencing products.

For independent verification of EIF3S6IP (h) gene silencing results, we also provide the individual siRNA duplex components. Each is available as 3.3 nmol of lyophilized siRNA. These include: sc-77252A, sc-77252B and sc-77252C.

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

APPLICATIONS

EIF3S6IP siRNA (h) is recommended for the inhibition of EIF3S6IP 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 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 EIF3S6IP gene expression knockdown using RT-PCR Primer: EIF3S6IP (h)-PR: sc-77252-PR (20 µl). 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.