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Protein Z siRNA (m): sc-152485



The Power to Question

BACKGROUND

The human Protein Z gene maps to chromosome 13q34 and encodes a vitamin K-dependent plasma protein with a plasma half-life of approximately 2.5 days. Protein Z, protein C and coagulation factors VII, IX and X share a similiar structure. Protein Z limits the normal coagulation response by serving as a cofactor for the inhibition of factor Xa by Protein Z-dependent protease inhibitor (PZI). At phospholipid surfaces, Protein Z forms a calcium ion-dependent complex with factor Xa. In the presence of Protein Z, Ca²⁺ and procoagulant phospholipids, PZI generates rapid inhibition of factor Xa by forming a tertiary complex with factor Xa and protein Z. Protein Z deficiency and Protein Z autoantibodies correlate to early fetal loss in women.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Proz (mouse) mapping to 8 A1.1.

PRODUCT

Protein Z 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 Protein Z shRNA Plasmid (m): sc-152485-SH and Protein Z shRNA (m) Lentiviral Particles: sc-152485-V as alternate gene silencing products.

For independent verification of Protein Z (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-152485A, sc-152485B and sc-152485C.

PROTOCOLS

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

STORAGE AND RESUSPENSION

Store lyophilized siRNA duplex at -20 $^{\circ}$ C with desiccant. Stable for at least one year from the date of shipment. Once resuspended, store at -20 $^{\circ}$ 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

Protein Z siRNA (m) is recommended for the inhibition of Protein Z 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 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 Protein Z gene expression knockdown using RT-PCR Primer: Protein Z (m)-PR: sc-152485-PR (20 μ l). 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.

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