EPHA2 siRNA Set I
siRNA duplexes targeted against three exon regions

Catalog #: E14-911
Lot #: Z2037-19

Specificity
EPHA2 siRNAs are designed to specifically knock-down human EPHA2 expression.

Product Description
EPHA2 siRNA is a pool of three individual synthetic siRNA duplexes designed to knock-down human EPHA2 mRNA expression. Each siRNA is 19-25 bases in length. The gene accession number is NM_004431.

Gene Aliases
ECK

Storage and Stability
The lyophilized powder is stable for at least 4 weeks at room temperature. It is recommended that the lyophilized and resuspended siRNAs are stored at or below -20°C. After resuspension, siRNA stock solutions ≥2 μM can undergo up to 50 freeze-thaw cycles without significant degradation. For long-term storage, it is recommended that the siRNA is stored at -70°C. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

Scientific Background
EPHA2 is a member of the ephrin receptor subfamily of protein-tyrosine kinases that bind the ephrin-A ligand and have diverse cellular function. EPHA2 has been shown to be an oncoprotein of importance in a range of cancers. EPHA2 is overexpressed in several human cancer types and promotes malignancy through a mechanism involving RhoA-dependent destabilization of adherens junctions (1). EPHA2 overexpression induces a FAK-dependent increase in MMP-2 expression and invasiveness and this process that can be reversed by ligation of EPHA2 (2).

References

Formulation
The siRNAs are supplied as a lyophilized powder and shipped at room temperature.

Reconstitution Protocol
Briefly centrifuge the tubes (maximum RCF 4,000g) to collect lyophilized siRNA at the bottom of the tube. Resuspend the siRNA in 50 μl of DEPC-treated water (supplied by researcher), which results in a 1x stock solution (10 μM). Gently pipet the solution 3-5 times to mix and avoid the introduction of bubbles. Optional: aliquot 1x stock solutions for storage.

Related Products

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<th>Product Name</th>
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<td>EPHA2, Active</td>
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<tr>
<td>EPHA8 Protein</td>
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EPHA2 siRNA Set I
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Catalog Number: E14-911
Specific Lot Number: Z2037-19
Packaging Specifications: 2.5 nmol/tube for 3 x 5 nmol
Lyophilized powder

Stability:
1yr at -70°C from date of shipment

Storage & Shipping:
The lyophilized powder is stable for at least 4 weeks at room temperature. It is recommended that the lyophilized and resuspended siRNAs are stored at or below -20°C. After resuspension, siRNA stock solutions ≥2 μM can undergo up to 50 freeze-thaw cycles without significant degradation. For long-term storage, it is recommended that the siRNA is stored at -70°C. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

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