EPHB2 siRNA Set I

siRNA duplexes targeted against three exon regions

Catalog # E22-911B
Lot # Z2037-26

Specificity
EPHB2 siRNAs are designed to specifically knock-down human EPHB2 expression.

Product Description
EPHB2 siRNA is a pool of three individual synthetic siRNA duplexes designed to knock-down human EPHB2 mRNA expression. Each siRNA is 19-25 bases in length. The gene accession number is NM_004442.

Gene Aliases
DRT; ERK; CAPB; PCBC; EPHT3; Tyro5; MGC87492

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
EPHB2 is a member of the Eph family of receptor tyrosine kinases that mediate neurodevelopmental processes such as boundary formation, axon guidance, vasculogenesis, and cell migration. EPHB2 has been shown to associate with the non-receptor tyrosine kinase Abl and activated EPHB2 causes tyrosine phosphorylation of Abl and regulates its activity (1). EPHB2 is overexpressed in a number of tumors particularly glioblastoma and this increases glioma cell migration and invasion (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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<td>EPHB2, Active</td>
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<td>Anti-phospho-EPHB2 (Tyr469)</td>
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Catalog Number
Specific Lot Number Z2037-26
Packaging Specifications 2.5 nmol/tube for 3 x 5 nmol
Format Lyophilized powder
Stability 1yr at -70°C from date of shipment
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.