CDC42 siRNA Set I
siRNA duplexes targeted against three exon regions

Catalog # C08-911B
Lot # Z2025-28

Specificity
CDC42 siRNAs are designed to specifically knock-down human CDC42 expression.

Product Description
CDC42 siRNA is a pool of three individual synthetic siRNA duplexes designed to knock-down human CDC42 mRNA expression. Each siRNA is 19-25 bases in length. The gene accession number is NM_001791.

Gene Aliases
G25K, CDC42Hs

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
CDC42 is a member of the Rho family of GTPases and is part of cellular pathways fundamental to growth, differentiation and apoptosis (1). Downstream targets for CDC42 include those that regulate the actin cytoskeleton (e.g. WASP) and cellular stress pathways (e.g. PAK) as well as the coatomer protein complex and PAR6. CDC42 is involved in the G(1)-S progression of the cell cycle. CDC42 and its downstream effector mDia3 are involved in bi-orientation and stabilization of spindle microtubules attachment to kinetochores and regulate chromosome alignment and segregation during mitosis (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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<tr>
<td>CDC42 Protein</td>
<td>C08-30G</td>
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<td>PAK1/CDC42, Active Anti-CDC42</td>
<td>P02-10G</td>
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<tr>
<td>Anti-CDC42</td>
<td>C08-363R</td>
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Catalog Number C08-911B
Specific Lot Number Z2025-28
Packaging Specifications
2.5 nmol/tube for 3 x 5 nmol Lyophilized powder
Format
1 yr at -70°C from date of shipment
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.

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