PI4KA siRNA Set I
siRNA duplexes targeted against three exon regions

Catalog # P31-911
Lot # Z2073-41

Specificity
PI4KA siRNAs are designed to specifically knock-down human PI4KA expression.

Product Description
PI4KA siRNA is a pool of three individual synthetic siRNA duplexes designed to knock-down human PI4KA mRNA expression. Each siRNA is 19-25 bases in length. The gene accession number is NM_002650.

Gene Aliases
FLJ16556; PI4K-ALPHA; pi4K230; PIK4CA

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
PI4KA encodes a phosphatidylinositol (PI) 4-kinase which catalyzes the first committed step in the biosynthesis of phosphatidylinositol 4,5-bisphosphosphate. The mammalian PI 4-kinases have been classified into two types, II and III, based on their molecular mass, and modulation by detergent and adenosine. The protein encoded by PI4KA gene is a type III enzyme that is not inhibited by adenosine. PI4KA is highly expressed in placenta and brain (1). PI4KA is associated with the membranes of Golgi vesicles and vacuoles (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>PI4K2A, Active</td>
<td>P21-10G</td>
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<td>PI4KA Protein</td>
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Definitions:
2.5 nmol/tube for 3 x 5 nmol
Lyophilized powder
1yr at -70°C from date of shipment
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