PLC gamma 1 siRNA Set I
siRNA duplexes targeted against three exon regions

Catalog # P40-911
Lot # Z2073-91

Specificity
PLC gamma 1 siRNAs are designed to specifically knock-down human PLC gamma 1 expression.

Product Description
PLC gamma 1 siRNA is a pool of three individual synthetic siRNA duplexes designed to knock-down human PLC gamma 1 mRNA expression. Each siRNA is 19-25 bases in length. The gene accession number is NM_002661.

Gene Aliases
APLAID; FCAS3

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
PLCγ1 or phospholipase C gamma 1 plays an important role in the intracellular transduction of message from receptor-mediated tyrosine kinase activation. PLCγ1 catalyzes the formation of two second-messenger molecules inositol 1, 4, 5-trisphosphate and diacylglycerol from phosphatidylinositol 4, 5-bisphosphate. PLCγ1 is a major substrate for heparin-binding growth factor 1 activated tyrosine kinase. PLCγ1 inhibits growth factor receptor-mediated invasion of breast and prostate tumor cells and is a physiological guanine nucleotide exchange factor for the nuclear GTPase PIKE (1).

References

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Packaging Specifications
2.5 nmol/tube for 3 x 5 nmol

Format
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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