CK1 gamma 2 siRNA Set I
siRNA duplexes targeted against three exon regions

Catalog # C68-911B
Lot # Z2025-58

Specificity
CK1 gamma 2 siRNAs are designed to specifically knock-down human CK1 gamma 2 expression.

Product Description
CK1 gamma 2 siRNA is a pool of three individual synthetic siRNA duplexes designed to knock-down human CK1 gamma 2 mRNA expression. Each siRNA is 19-25 bases in length. The gene accession number is NM_001319.

Gene Aliases
CSNK1G2

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
CK1γ2 is a member of the CK1 family of serine/threonine protein kinases which play an important role in diverse cell processes, including DNA replication and repair. CK1γ2 is a ubiquitously expressed cytoplasmic kinase that can interact and phosphorylate the metastatic tumor antigen 1 short form (MTA1s) co-localizing it in the cytoplasm (1). Phosphorylated MTA1s then sequesters the estrogen receptor-alpha in the cytoplasm of breast cancer cells. CK1γ2 hyperphosphorylates the ceramide transfer protein CERT leading to a decrease in de novo sphingomyelin synthesis. The reduction in synthesis of sphingomyelin is reversed by the expression of CERT mutants that are not hyperphosphorylated (2).

References

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