CREB1 siRNA Set I
siRNA duplexes targeted against three exon regions

Catalog # C49-911
Lot # Z2025-71

Specificity
CREB1 siRNAs are designed to specifically knock-down human CREB1 expression.

Product Description
CREB1 siRNA is a pool of three individual synthetic siRNA duplexes designed to knock-down human CREB1 mRNA expression. Each siRNA is 19-25 bases in length. The gene accession number is NM_031017.

Gene Aliases
cAMP Responsive Element Binding Protein 1, creb

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
CREB1 is a member of the cAMP responsive element binding protein family of transcription factors that are critical mediators of gene expression in response to extracellular signals and are essential regulators of adaptive behavior and long-term memory formation (1). Activation of CREB1 by protein kinase A-mediated phosphorylation has been implicated in the survival of mammalian cells. Mice lacking CREB in the central nervous system during development show extensive apoptosis of postmitotic neurons (2). CREB binds as homo- and heterodimers to promoters containing CRE and activator protein 1 (AP-1) sites to alter target-gene expression.

References

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