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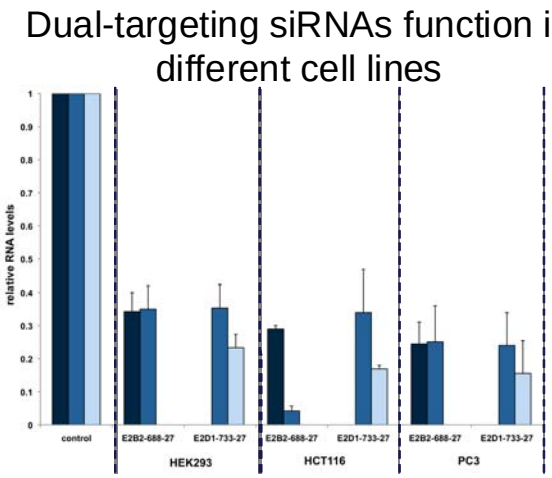
City of Hope
NATIONAL MEDICAL CENTER AND
BECKMAN RESEARCH INSTITUTE

Multi-Targeting siRNA



DESCRIPTION

This technology relates to novel short interfering RNA (siRNA) molecules that are multi-targeted. More specifically, it relates to siRNA molecules that are capable of targeting two or more sequences. In one embodiment, multi-targeting siRNA molecules are designed to incorporate features of siRNA molecules and features of micro-RNA (miRNA) molecules. In another embodiment, multi-targeting siRNA molecules are designed so that each strand is directed to separate discrete therapeutic targets. This platform technology has applications in a broad spectrum of diseases and conditions including, cancer, infectious disease, cardiovascular disease, neurological disease, prion disease, inflammatory disease, autoimmune disease, pulmonary disease, renal disease, liver disease, mitochondrial disease, endocrine disease, and reproduction related diseases and conditions.

KEY ASPECTS

- The siRNA moiety is a 25/27mer Dicer substrate
- Utilizes both short interfering RNA (siRNA) and micro-RNA (miRNA) moieties

PUBLISHED DATA

- Tiemann K, Höhn B, Ehsani A, Forman SJ, Rossi JJ, Saetrom P. Dual-targeting siRNAs. RNA. 2010 Jun;16(6):1275-84.

INTELLECTUAL PROPERTY

Title	Patent Application	Filed
Multi-Targeting Short Interfering RNAs	12/021,604 (US)	1/29/2008

CONTACT

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