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# Liposome-encapsulated miR-34 Mimic MRX34

National Cancer Institute

## Source

National Cancer Institute. *Liposome-encapsulated miR-34 Mimic MRX34*. NCI Thesaurus. Code C105802.

A liposomal formulation containing a nucleotide that mimics the human tumor suppressor microRNA (miRNA) miR-34, with potential antineoplastic activity. Upon administration, liposome-encapsulated MRX34 mimics miR-34 by inhibiting the expression of a variety of oncogenes including MYC, MET, BCL2, and beta-catenin. This induces cell cycle arrest, senescence and apoptosis in susceptible tumor cells. miR-34 is downregulated in most solid and hematologic malignancies and regulates the expression of a variety of genes. This miRNA plays an important role in the inhibition of cancer cell stemness, metastasis and cancer cell survival.