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Anti-HIF-1 alpha LNA Antisense Oligonucleotide EZN-2968

National Cancer Institute

Source

National Cancer Institute. *Anti-HIF-1alpha LNA Antisense Oligonucleotide EZN-2968*. NCI Thesaurus. Code C68930.

A synthetic antisense oligodeoxynucleotide (AS ODN) targeting hypoxia-inducible factor-1alpha (HIF-1alpha) with potential antineoplastic activity. Anti-HIF-1alpha LNA antisense oligonucleotide EZN-2968 hybridizes with HIF-1alpha mRNA and blocks t HIF-1 alpha protein expression, which may result in the inhibition of angiogenesis, the inhibition of tumor cell proliferation, and apoptosis. HIF-1alpha, normally activated in response to hypoxia-induced stress, is a key transcription regulator of a large number of genes important in cellular adaptation to low-oxygen conditions, including angiogenesis, cell proliferation, apoptosis, and cell invasion.