

Fludarabine

货号: F0528

储存条件: 粉末-20°C可保存3年; 液体-80°C可保存12月。

产品描述

Fludarabine (2-F-ARAA, 2-fluoro ARA-A) is a chemotherapy drug used in the treatment of chronic lymphocytic leukemia (see <https://www.fda.gov/>) for targeting on DNA synthesis. It can also work as an inhibitor of STAT1 activation. The mechanism of Fludarabine action against to DNA synthesis is similar to other nucleotide analogues. Fludarabine can be phosphorylated to form as the Fludarabine triphosphate and then compete with natural nucleotides to inhibit DNA polymerase α and incorporate into DNA strand. It can also act on ribonucleotide reductase and thus deplete the dATP pool^[1]. Fludarabine can also cause a specific depletion of STAT1, but not of other STATs, as well as cytokine-induced activation of STAT1 and STAT1-dependent gene transcription in lymphocytes^[2].

作用机制

Fludarabine can inhibit DNA synthesis through targeting to ribonucleotide reductase and DNA polymerase.

产品信息

CAS号	21679-14-1	
分子式	C ₁₀ H ₁₂ FN ₅ O ₄	
分子量	285.23	
别名	FaraA; NSC-118218	
溶解度	DMSO	56.0 mg/mL (196.3 mM)
	Water	Insoluble
	Ethanol	Insoluble

