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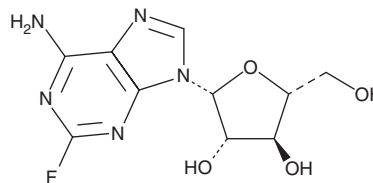
PRODUCT INFORMATION



Fludarabine

Item No. 14128

CAS Registry No.: 21679-14-1
Formal Name: 9-β-D-arabinofuranosyl-2-fluoro-9H-purin-6-amine
Synonyms: F-ara-A, NSC 118218
MF: C₁₀H₁₂FN₅O₄
FW: 285.2
Purity: ≥98%
UV/Vis.: λ_{max}: 261 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Fludarabine is supplied as a crystalline solid. A stock solution may be made by dissolving the fludarabine in the solvent of choice. Fludarabine is soluble in organic solvents such as DMSO and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of fludarabine in DMSO and DMF is approximately 11 and 3.3 mg/ml, respectively.

Fludarabine is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, fludarabine should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Fludarabine has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Because of their antitumor activity via inhibition of DNA synthesis, purine nucleoside derivatives resistant to deamination have been developed for the treatment of various leukemias.^{1,2} Fludarabine is an adenosine deaminase resistant analog of 9-β-D-arabinofuranosyladenine (ara-A) that disrupts ribonucleotide reductase and DNA polymerase in blood cells. It exhibits antiproliferative activity (IC₅₀ = 1.54 μM in an RPMI-8226 myeloma cell line) and triggers apoptosis through increasing Bax and decreasing Bid, XIAP, and survivin expression.^{3,4} Fludarabine is effective in a number of animal tumor systems including LI210 leukemia, CD8F mammary adenocarcinoma, P388 leukemia, and human LX-1 lung tumor xenograft and displays anticancer activity against human hematological malignancies *in vivo*.⁵⁻⁷

References

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4. Bellosillo, B., Villamor, N., Colomer, D., et al. *Blood* **94**(8), 2836-2843 (1999).
5. Spriggs, D.R., Stopa, E., Mayer, R.J., et al. *Cancer Res.* **46**, 5953-5958 (1986).
6. Tournilhac, O., Cazin, B., Leprêtre, S., et al. *Blood* **103**(1), 363-365 (2004).
7. Rai, K.R., Peterson, B.L., Appelbaum, F.R., et al. *N. Engl. J. Med.* **343**(24), 1750-1757 (2000).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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