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Zuschläge

- Mindermengenzuschlag
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- Expressversand

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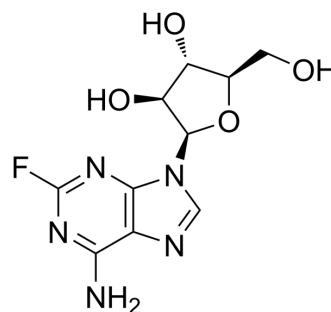
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Fludarabine (Standard)

Cat. No.:	HY-B0069R
CAS No.:	21679-14-1
Molecular Formula:	C ₁₀ H ₁₂ FN ₅ O ₄
Molecular Weight:	285.23
Target:	Apoptosis; Nucleoside Antimetabolite/Analog; DNA/RNA Synthesis; STAT
Pathway:	Apoptosis; Cell Cycle/DNA Damage; JAK/STAT Signaling; Stem Cell/Wnt
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Fludarabine (Standard) is the analytical standard of Fludarabine. This product is intended for research and analytical applications. Fludarabine (NSC 118218) is a DNA synthesis inhibitor and a fluorinated purine analogue with antineoplastic activity in lymphoproliferative malignancies. Fludarabine inhibits the cytokine-induced activation of STAT1 and STAT1-dependent gene transcription in normal resting or activated lymphocytes^{[1][2][3][4]}.

REFERENCES

- [1]. Tournilhac O, et al. Impact of frontline fludarabine and cyclophosphamide combined treatment on peripheral blood stem cell mobilization in B-cell chronic lymphocytic leukemia. *Blood*. 2004 Jan 1;103(1):363-5. Epub 2003 Sep 11.
- [2]. Liang YB, et al. Downregulated SOCS1 expression activates the JAK1/STAT1 pathway and promotes polarization of macrophages into M1 type. *Mol Med Rep*. 2017 Nov;16(5):6405-6411.
- [3]. Sanhes L, et al. Fludarabine-induced apoptosis of B chronic lymphocytic leukemia cells includes early cleavage of p27kip1 by caspases. *Leukemia*. 2003 Jun;17(6):1104-11.
- [4]. Weiss L, et al. Fludarabine in combination with cyclophosphamide decreases incidence of GVHD and maintains effective graft-versus-leukemia effect after allogeneic stem cell transplantation in murine lymphocytic leukemia. *Bone Marrow Transplant*. 2003 Jan;31(1):11-5.
- [5]. Frank DA, et al. Fludarabine-induced immunosuppression is associated with inhibition of STAT1 signaling. *Nat Med*. 1999 Apr;5(4):444-7.
- [6]. Frank DA, et al. Fludarabine-induced immunosuppression is associated with inhibition of STAT1 signaling. *Nat Med*. 1999;5(4):444-447.

Caution: Product has not been fully validated for medical applications. For research use only.

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