

Product Name: Fludarabine Revision Date: 01/10/2021

Product Data Sheet

Fludarabine

Cat. No.: A5424

CAS No.: 21679-14-1

Formula: C10H12FN5O4

M.Wt: 285.23

Synonyms:

Target: DNA Damage/DNA Repair

Pathway: DNA Synthesis
Storage: Store at -20°C

HO MINIOH NH2

Solvent & Solubility

insoluble in H2O; insoluble in EtOH; ≥9.25 mg/mL in DMSO

In Vitro

Preparing Stock Solutions	Solvent Concentration	1mg	5mg	10mg
	1 mM	3.5059 mL	17.5297 mL	35.0594 mL
	5 mM	0.7012 mL	3.5059 mL	7.0119 mL
	10 mM	0.3506 mL	1.7530 mL	3.5059 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Reacting conditions:

Shortsummary	DNA synthsis inhibitor	
IC ₅₀ & Target		
	Cell Viability Assay	
	Cell Line:	RPMI 8226 cells
	Preparation method:	The solubility of this compound in DMSO is > 9.3 mg/mL. General tips for
In Vitro		obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes
		and/or shake it in the ultrasonic bath for a while. Stock solution can be stored
		below - 20 °C for several months.

1, 2 or 4 μ g/mL; 6, 12 or 24 hrs

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Applications:		Fludarabine potently inhibited the proliferation of RPMI 8226 cells in dose- and
		time-dependent manners, with an IC50 value of 1.54 µg/mL. Fludarabine
		arrested RPMI 8226 cells in the G1 phase of cell cycle and triggered apoptosis.
		The immunoblotting results showed that Fludarabine time-dependently
		induced cleavage of caspase-8, -9, -3 and -7, followed by PARP cleavage. In
	610	addition, Fludarabine time-dependently up-regulated Bax expression, without
		affecting Bak expression.
	Animal experiment	Section 1. The section of the sectio
	Animal models:	SCID mice bearing RPMI 8226 cells
	Dosage form:	40 mg/kg; i.p.
	Applications:	Tumors of mice treated with PBS grew rapidly, to approximately 10 folds of their
		initial volume in the 25th day, whereas, tumors in the Fludarabine treatment
In Vivo		group increased less than 5 folds. In SCID mice bearing RPMI 8226 cells,
		treatment with 40 mg/kg Fludarabine for 10 days resulted in a significant
	810	increase in the number of apoptotic cells.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may
		slightly differ with the theoretical value. This is caused by an experimental
		system error and it is normal.

Product Citations

See more customer validations on www.apexbt.com.

References

[1]. Meng H, Yang C, Ni W, et al. Antitumor activity of fludarabine against human multiple myeloma in vitro and in vivo. Eur J Haematol, 2007, 79(6): 486-493.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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