

Product Name: Flavopiridol Revision Date: 07/19/2024

Product Data Sheet

Flavopiridol

Cat. No.: A3417

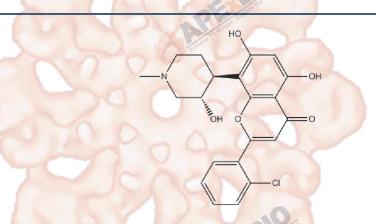
M.Wt: 401.85

Synonyms: L868275; HMR-1275; Alvocidib

Target: Cell Cycle/Checkpoint

Pathway: Cyclin-Dependent Kinases

Storage: Store at -20°C



Solvent & Solubility

In Vitro

insoluble in H2O; ≥40.2 mg/mL in DMSO; ≥85.4 mg/mL in EtOH with gentle warming and ultrasonic

Mass Solvent 1mg 5mg 10mg Preparing Concentration Stock Solutions 1 mM 2.4885 mL 12.4425 mL 24.8849 mL 5 mM 2.4885 mL 4.9770 mL 0.4977 mL 10 mM 0.2488 mL 1.2442 mL 2.4885 mL

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

Biological Activity

Cell Viability Assay Cell Line: 23 human tumor cells This compound is soluble in DMSO. General tips for 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. Reacting conditions: 0.1 ng/mL ~ 10 µg/mL; 6 ~ 18 days	Shortsummary	Pan-cdk inhibitor	
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	Applications:	In 3 prostate cancer cell lines (PRXFI369, PC3MX and LNCaPX) and 1
		melanoma cell line (MEXFI341), Flavopiridol potently inhibited colony
		formation, even at the concentration down to 0.1 ng/mL. At the concentrations
		between 10 and 100 ng/mL, Flavopiridol significantly inhibited colony formation
	The court	of human bone marrow cells. For most of the human tumor cells, the inhibitory
	Explore the C	effect of Flavopiridol on colony formation was first observed at 10 ng/mL.
	Animal experiment	A Company of the Control of the Cont
	Animal models:	Nude mice bearing PRXFI369 xenografts
	Dosage form:	10 mg/kg/day; p.o.
	Applications:	In tumor-bearing nude mice, Flavopiridol caused 12.5% deaths at the
		maximum tolerated dose (MTD). In nude mice bearing PRXFI369 xenografts,
In Vivo		Flavopiridol at MTD resulted in an optimal T/C value of 33% and a growth delay
		of 30 days. However, at day 28, tumor volume increased slightly to 115%.
	40	Flavopiridol at the dose of 15 mg/kg/day was toxic, whereas at the dose of 5
	The Unitrovin	mg/kg/day was inactive.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may
	Little to Settle	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]. Drees M, Dengler WA, Roth T, Labonte H, Mayo J, Malspeis L, Grever M, Sausville EA, Fiebig HH. Flavopiridol (L86-8275): selective antitumor activity in vitro and activity in vivo for prostate carcinoma cells. Clin Cancer Res. 1997 Feb;3(2):273-9.

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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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