



# LKT Laboratories, Inc.

## Flavopiridol Hydrochloride

Phone: 888-558-5227  
651-644-8424  
Fax: 888-558-7329  
Email: [getinfo@lctlabs.com](mailto:getinfo@lctlabs.com)  
Web: [lctlabs.com](http://lctlabs.com)

### Product Information

Product ID F441026

CAS No. 131740-09-5

#### Chemical Name

Synonym Flavopiridol HCl; Alvocidib hydrochloride; Alvocidib HCl

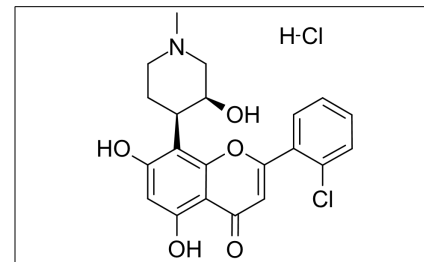
Formula  $C_{21}H_{21}Cl_2NO_5$

Formula Wt. 438.30

Melting Point

Purity  $\geq 98\%$

Solubility



**Bulk quantities available upon request**

Product ID	Size
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F441026	5 mg
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F441026	25 mg
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Store Temp 4°C

Ship Temp Ambient

**Description** Flavopiridol hydrochloride is a plant-derived semisynthetic flavone that acts as a cyclin-dependent kinase inhibitor. Flavopiridol was found to induce apoptosis in chronic lymphocytic leukemia cells in vitro, but significant toxicity has prevented further development as a single agent treatment. A combination treatment using cytarabine and mitoxantrone in addition to flavopiridol against acute myeloid leukemia in vivo has also been evaluated. Further studies have found flavopiridol to elicit anti-inflammatory activity via CDK9 and NFkB-dependent signaling.

**References** Wiernik PH. Alvocidib (flavopiridol) for the treatment of chronic lymphocytic leukemia. Expert Opin Investig Drugs. 2016 Jun;25(6):729-734. PMID: 26998706.

Zeidner JF, Karp JE. Clinical activity of alvociclib (flavopiridol) in acute myeloid leukemia. Leuk Res. 2015 Dec;39(12):1312-1318. PMID: 26521988.

Srikumar T, Padmanabhan J. Potential use of flavopiridol in treatment of chronic diseases. Adv Exp Med Biol. 2016;929:209-228. PMID: 27771926.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.