



Flavopiridol (Hydrochloride)

Catalog No: tcsc0306

基	Available Sizes
Size:	5mg
Size:	10mg
Size:	50mg
Size:	100mg
Size:	200mg
Size:	500mg
Size:	1g
	Specifications
CAS N 13174	No: -0-09-5
Form	ula: 11 ^{Cl} 2 ^{NO} 5
Pathy Cell C	vay: ycle/DNA Damage;Autophagy
Targe CDK;A	e t: autophagy
Purity >98%	y / Grade:
Solub H2O:	oility: ≥ 20 mg/mL (45.63 mM)





Alternative Names:

HL 275;NSC 649890;MDL 107826A;FLAVOPIRIDOL HCL;Alvocidib Hydrochloride

Observed Molecular Weight:

438.3

Product Description

Flavopiridol Hydrochloride is a broad inhibitor of **CDK**, competing with ATP to inhibit CDKs including CDK1, CDK2, CDK4 with **IC**₅₀s of 30, 170, 100 nM, respectively.

IC50 & Target: IC50: 30 nM (CDK1), 170 nM (CDK2), 100 nM (CDK4)[3]

In Vitro: Flavopiridol (2 μ M) robustly induces a distinct pattern of ER stress in CLL cells that contributes to cell death through IRE1-mediated activation of ASK1 and possibly downstream caspases^[1]. Flavopiridol results in potent upregulation of a number of PRGs in treatments lasting 4-24 h. Flavopiridol has and immediate and long-term effect on the expression of several PRGs. In serum starved cells re-stimulated with serum, flavopiridol also inhibits the expression of these genes, but subsequently, JUNB, GADD45B and EGR1 are upregulated in the presence of flavopiridol^[2].

All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!