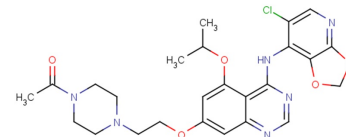


AZD0424

Chemical Properties

CAS No.:	692054-06-1
Formula:	C ₂₅ H ₂₉ ClN ₆ O ₅
Molecular Weight:	528.99
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	AZD0424 is an orally active, and dual selective Src/Abl kinase inhibitor with potential antineoplastic activity[1] and it also induces apoptosis and cell cycle arrest in lymphoma cells[2].
Targets(IC ₅₀)	Src/Abl kinase inhibitor (SrcK-I): None apoptosis: None
In vitro	AZD0424 (5 μ M; 48 hours) leads to increased G0/G1 cell cycle arrest in DOHH-2 and WSU-NHL cells, whereas the cell cycle progression of the nonsensitive cell lines Raji and Jurkat remains unaffected[2]. AZD0424 (1-5 μ M; 24-48 hours) is emerged to be the more effective of the three tested inhibitors (AZM559756, AZD0530 and AZD0424), inducing the highest levels of apoptosis with the lowest concentrations in lymphoma cells[2].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.89 mL	9.452 mL	18.904 mL
5 mM	0.378 mL	1.89 mL	3.781 mL
10 mM	0.189 mL	0.945 mL	1.89 mL
50 mM	0.038 mL	0.189 mL	0.378 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

- Woodcock VK, et al. A first-in-human phase I study to determine the maximum tolerated dose of the oral Src/ABL inhibitor AZD0424. Br J Cancer. 2018 Mar 20;118(6):770-776.
- Nowak D, et al. Src kinase inhibitors induce apoptosis and mediate cell cycle arrest in lymphoma cells. Anticancer Drugs. 2007 Oct;18(9):981-95.

Inhibitors · Natural Compounds · Compound Libraries

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