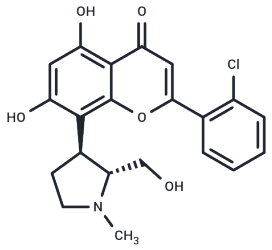
Data Sheet (Cat.No.T12737)

TargetMol

Riviciclib

Chemical Properties



CAS No. : 920113-02-6

Formula: C21H20ClNO5

Molecular Weight: 401.84

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Riviciclib is a potent inhibitor of cyclin-dependent kinase (CDK)(CDK9-cyclinT1, CDK4-cyclin D1, and CDK1-cyclinB with IC50s of 20 nM, 63 nM, and 79 nM, respectively),with antitumor activity on cisplatin-resistant cells.
Targets(IC50)	Others,CDK
In vitro	Riviciclib (3-24 hours; 1.5 μM) reduces cyclin D1, Cdk4, and Rb levels in H-460 cells. Rb (retinoblastoma) phosphorylation at Ser780 decrease at 3 h. Riviciclib shows activity in human cancer cell lines, such as colon carcinoma, osteosarcomal, cervical carcinoma, and bladder carcinoma cells[2].Riviciclib shows no detectable cells in G1 and G2 in promyelocytic leukemia cells and arrest of cells in G1 in synchronized human non-small cell lung carcinoma (H-460) and human normal lung fibroblast (WI-38) cells[3].
In vivo	Riviciclib in human xenograft mode with severe combined immunodeficient mice shows significant inhibition in the growth of human colon carcinoma HCT-116 xenograft[3].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4886 mL	12.4428 mL	24.8855 mL
5 mM	0.4977 mL	2.4886 mL	4.9771 mL
10 mM	0.2489 mL	1.2443 mL	2.4886 mL
50 mM	0.0498 mL	0.2489 mL	0.4977 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Roskoski R Jr,Cyclin-dependent protein kinase inhibitors including palbociclib as anticancer drugs.Pharmacol Res. 2016 May;107:249-275.

Joshi KS, et al. In vitro antitumor properties of a novel cyclin-dependent kinase inhibitor, P276-00. Mol Cancer Ther. 2007 Mar;6(3):918-25.

Joshi KS,et al. P276-00, a novel cyclin-dependent inhibitor induces G1-G2 arrest, shows antitumor activity on cisplatin-resistant cells and significant in vivo efficacy in tumor models. Mol Cancer Ther. 2007 Mar;6(3):926-34.

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