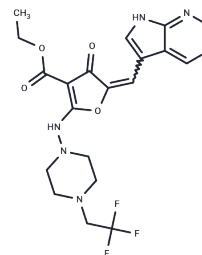


AS-0141

Chemical Properties

CAS No. : 1402057-88-8
 Formula: C₂₁H₂₂F₃N₅O₄
 Molecular Weight: 465.43
 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	AS-0141 (Cdc7-IN-6) is a potent Cdc7 kinase inhibitor (IC ₅₀ =4 nM) with anti-tumor activity.
Targets(IC ₅₀)	CDK
In vitro	AS-0141 demonstrates potent inhibitory activity (IC ₅₀ <3 μM) across a variety of solid tumor cell lines, including sarcoma (143B, CADO-ES1, RD-ES, A673), bladder (5673, RT1 12/84), colon and cecum (Colo-205, DLD-1, LS1034, SK-CO-1, SNU-C1), renal (U0.31), melanoma (A2058, A875), head-and-neck (CNE-2Z, RPMI-2650), and gastric (HGC-27) lineages[1].

Solubility Information

Solubility	DMSO: 76.5 mg/mL (164.36 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1486 mL	10.7428 mL	21.4855 mL
5 mM	0.4297 mL	2.1486 mL	4.2971 mL
10 mM	0.2149 mL	1.0743 mL	2.1486 mL
50 mM	0.043 mL	0.2149 mL	0.4297 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

Christian Andrew HASSIG, et al. Methods of treatment of cancer comprising cdc7 inhibitors. WO2019165473A1.
Takayuki Irie, et al. Discovery of AS-0141, a Potent and Selective Inhibitor of CDC7 Kinase for the Treatment of Solid Cancers. J Med Chem. 2021 Oct 14;64(19):14153-14164.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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