

TC-A 2317 hydrochloride

Chemical Properties

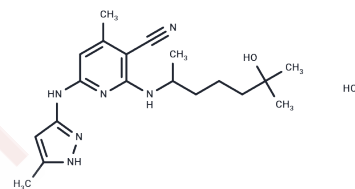
CAS No. : 1245907-03-2

Formula: C₁₉H₂₉ClN₆O

Molecular Weight: 392.93

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	TC-A 2317 hydrochloride is an inhibitor of Aurora kinase A (Ki of 1.2 nM) and Aurora kinase B (Ki of 101 nM), exhibiting antitumor activity.
Targets(IC50)	Aurora Kinase
In vivo	In rats, TC-A 2317 hydrochloride (30 mg/kg;p.o.) shows good PK profile; Cmax value is 4930 nM (Tmax=1.2 h) and serum concentration after 24 h is 52 nM (T1/2=3.3 h). In the antitumor mice model, TC-A 2317 hydrochloride is effective without a decrease of body weight[1].

Solubility Information

Solubility	DMSO: <39 mg/mL, Sonication is recommended. Ethanol: <19.50 mg/mL, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 1 mg/mL (2.54 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.545 mL	12.7249 mL	25.4498 mL
5 mM	0.509 mL	2.545 mL	5.090 mL
10 mM	0.2545 mL	1.2725 mL	2.545 mL
50 mM	0.0509 mL	0.2545 mL	0.509 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

Ando R, et al. 3-Cyano-6-(5-methyl-3-pyrazoloamino)pyridines: selective Aurora A kinase inhibitors. *Bioorg Med Chem Lett.* 2010;20(15):4709-4711.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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