

TC-S 7005

## Chemical Properties

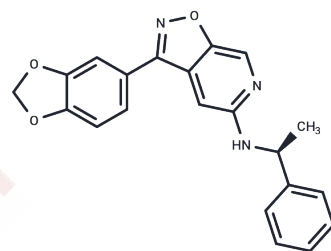
CAS No. : 1082739-92-1

Formula: C<sub>21</sub>H<sub>17</sub>N<sub>3</sub>O<sub>3</sub>

Molecular Weight: 359.38

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-S 7005 is an effective inhibitor of Polo-like kinases (IC <sub>50</sub> s: 214 nM, 4 nM and 24 nM for Plk1, Plk2, and Plk3).
Targets(IC <sub>50</sub> )	PLK
In vitro	In human SR fibroblasts, TC-S 7005(1 μM) obviously causes myofibroblast differentiation and decrease fibroblast proliferation rates [2].

## Solubility Information

Solubility	DMSO: 100 mg/mL (278.26 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	2.7826 mL	13.9128 mL	27.8257 mL
5 mM	0.5565 mL	2.7826 mL	5.5651 mL
10 mM	0.2783 mL	1.3913 mL	2.7826 mL
50 mM	0.0557 mL	0.2783 mL	0.5565 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

Hanan EJ, et al. Design and synthesis of 2-amino-isoxazolopyridines as Polo-like kinase inhibitors. *Bioorg Med Chem Lett*. 2008 Oct 1;18(19):5186-9.

Stephan Reinhard Künzel, et al. Hypoxia-induced epigenetic silencing of polo-like kinase 2 promotes fibrosis in atrial fibrillation. *bioRxiv* 445098

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