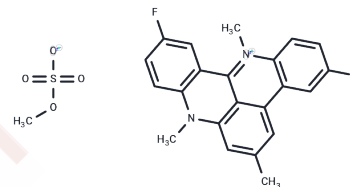


RHPS4

## Chemical Properties

CAS No. : 390362-78-4  
 Formula: C<sub>22</sub>H<sub>17</sub>F<sub>2</sub>N<sub>2</sub>·CH<sub>3</sub>O<sub>4</sub>S  
 Molecular Weight: 458.48  
 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	RHPS4 (RHPS 4 methosulfate) is a potent inhibitor of Telomerase at submicromolar.
Targets(IC50)	Apoptosis, Telomerase
In vitro	CP 673451 is a selective inhibitor of PDGFR $\alpha$ / $\beta$ with IC <sub>50</sub> of 10 nM/1 nM, exhibits >450-fold selectivity over other angiogenic receptors. In glioblastoma tumors, CP-673451 (33 mg/kg) provides >50% inhibition of PDGFR- $\beta$ receptor for 4 hours corresponding to an EC <sub>50</sub> of 120 ng/mL in plasma at C <sub>max</sub> . In a sponge angiogenesis model, CP-673451 inhibits 70% of PDGF-BB-stimulated angiogenesis at a dose of 3 mg/kg (q.d. $\times$ 5, p.o., corresponding to 5.5 ng/mL at C <sub>max</sub> ).[1] CP-673451 decreases cell proliferation rate through mechanisms involving reduced phosphorylation of GSK-3 $\alpha$ and GSK-3 $\beta$ . In both RD and RUCH2 cultures, CP-673451 impairs rhabdosphere-forming capacity and cell differentiation, causes increased senescence. [2]

## Solubility Information

Solubility	DMSO: 4.9 mg/mL (10.69 mM), Sonication is recommended. H <sub>2</sub> O: < 1 mg/mL (insoluble or slightly soluble), Ethanol: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	2.1811 mL	10.9056 mL	21.8112 mL
5 mM	0.4362 mL	2.1811 mL	4.3622 mL
10 mM	0.2181 mL	1.0906 mL	2.1811 mL
50 mM	0.0436 mL	0.2181 mL	0.4362 mL

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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

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Wang Z, Deng J, Umer M, et al. RHPS4 shifted the conformation ensemble equilibrium of Tel24 by preferentially stabilizing the (3+ 1) hybrid-2 conformation. RSC Advances. 2022, 12(40): 26011-26015.

Salvati E, et al. J Clin Invest. 2007, 117(11):3236-47.

Gao C, Deng J, Anwar N, et al. Molecular crowding promotes the aggregation of parallel structured G-quadruplexes. International Journal of Biological Macromolecules. 2023: 124442.

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