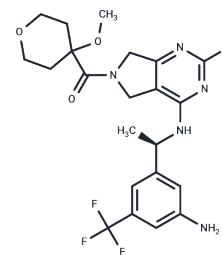


RMC-0331

Chemical Properties

CAS No. : 2488788-52-7
 Formula: C₂₂H₂₅ClF₃N₅O₃
 Molecular Weight: 499.91
 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	RMC-0331 (RM-023) is an orally available and potent SOS1 inhibitor with potential anticancer activity, blocking RAS activation by disrupting RAS-SOS1 interactions.
Targets(IC50)	Raf,Phosphatase,Ras
In vitro	The IC ₅₀ of RMC-0331 is 71 nM, as determined by in vitro GDP/GTP exchange rate measurements[1].
In vivo	In the SHP2 mutation model, RMC-0331 exhibits single-agent anti-tumor activity when administered orally at doses ranging from 100 to 250 mg/kg once daily in immunocompetent mice[1].

Solubility Information

Solubility	DMSO: 100 mg/mL (200.04 mM),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: 4 mg/mL (8 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	2.0004 mL	10.0018 mL	20.0036 mL
5 mM	0.4001 mL	2.0004 mL	4.0007 mL
10 mM	0.200 mL	1.0002 mL	2.0004 mL
50 mM	0.040 mL	0.200 mL	0.4001 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

Buckl A, et al. Discovery of a potent, selective, and orally bioavailable SOS1 inhibitor, RMC-023, an in vivo tool compound that blocks RAS activation via disruption of the RAS-SOS1 interaction[J]. Cancer Research, 2021, 81 (13_Supplement): 1273-1273.

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