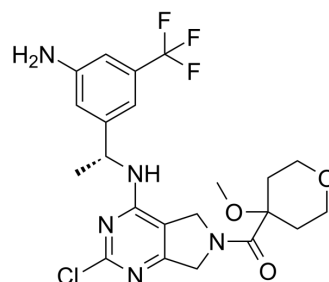


## RMC-0331

<b>Cat. No.:</b>	HY-134885
<b>CAS No.:</b>	2488788-52-7
<b>Molecular Formula:</b>	C <sub>22</sub> H <sub>25</sub> ClF <sub>3</sub> N <sub>5</sub> O <sub>3</sub>
<b>Molecular Weight:</b>	499.91
<b>Target:</b>	Ras
<b>Pathway:</b>	GPCR/G Protein
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 125 mg/mL (250.05 mM; Need ultrasonic)					
	<b>Preparing Stock Solutions</b>	<b>Solvent</b>	<b>Mass</b>	<b>1 mg</b>	<b>5 mg</b>	<b>10 mg</b>
		<b>Concentration</b>				
		<b>1 mM</b>		2.0004 mL	10.0018 mL	20.0036 mL
		<b>5 mM</b>		0.4001 mL	2.0004 mL	4.0007 mL
<b>10 mM</b>		0.2000 mL	1.0002 mL	2.0004 mL		
Please refer to the solubility information to select the appropriate solvent.						
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (4.16 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.08 mg/mL (4.16 mM); Suspended solution; Need ultrasonic					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.16 mM); Clear solution					

### BIOLOGICAL ACTIVITY

<b>Description</b>	RMC-0331 (RM-023) is a potent, selective and orally bioavailable SOS1 inhibitor. RMC-0331 is an in vivo tool compound that blocks RAS activation via disruption of the RAS-SOS1 interaction <sup>[1]</sup> .
<b>In Vitro</b>	RMC-0331 has an IC <sub>50</sub> of 71 nM measuring by the rate of GDP/GTP exchange in vitro <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
<b>In Vivo</b>	RMC-0331 (100-250 mg/kg; p.o.; qd; immunocompetent mice) shows single agent anti-tumor activity in SHP2-mutant models <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

[1]. Andreas Buckl, et al. Discovery of a Potent, Selective and Orally Bioavailable SOS1 Inhibitor, RMC-0331 (RM-023), an in vivo Tool Compound that Blocks RAS Activation via Disruption of the RAS-SOS1 Interaction.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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