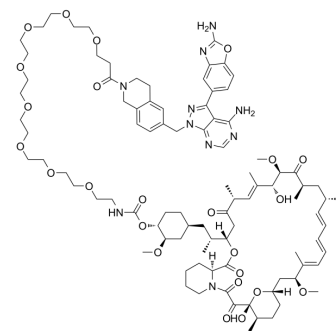


(32-Carbonyl)-RMC-5552

Cat. No.:	HY-134903
CAS No.:	2382768-55-8
Molecular Formula:	C ₉₃ H ₁₃₄ N ₁₀ O ₂₄
Molecular Weight:	1776.11
Target:	mTOR
Pathway:	PI3K/Akt/mTOR
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 146.67 mg/mL (82.58 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		0.5630 mL	2.8151 mL	5.6303 mL
		5 mM		0.1126 mL	0.5630 mL	1.1261 mL
10 mM		0.0563 mL	0.2815 mL	0.5630 mL		
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 5.5 mg/mL (3.10 mM); Suspended solution; Need ultrasonic					

BIOLOGICAL ACTIVITY

Description	(32-Carbonyl)-RMC-5552 is a potent mTOR inhibitor. (32-Carbonyl)-RMC-5552 inhibits mTORC1 and mTORC2 substrate (p-P70S6K-(T389), p-4E-BP1-(T37/36), AND p-AKT1/2/3-(S473)) phosphorylation with pIC ₅₀ s of > 9, >9 and between 8 and 9, respectively (patent WO2019212990A1, example 2) ^[1] .
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REFERENCES

[1]. Jennifer PITZEN, et al. C40-, c28-, and c-32-linked rapamycin analogs as mtor inhibitors. WO2019212990A1.

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

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