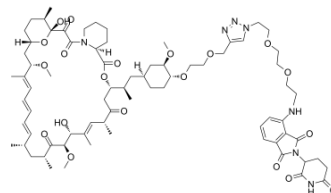


## FKBP12 PROTAC RC32

<b>Cat. No.:</b>	HY-130835		
<b>CAS No.:</b>	2375555-66-9		
<b>Molecular Formula:</b>	C <sub>75</sub> H <sub>107</sub> N <sub>7</sub> O <sub>20</sub>		
<b>Molecular Weight:</b>	1426.69		
<b>Target:</b>	PROTAC; FKBP		
<b>Pathway:</b>	PROTAC; Apoptosis; Autophagy; Immunology/Inflammation		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 10 mg/mL (7.01 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	<b>Preparing Stock Solutions</b>	1 mM	1 mg	5 mg	10 mg
		5 mM	0.7009 mL	3.5046 mL	7.0092 mL
10 mM		0.1402 mL	0.7009 mL	1.4018 mL	
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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: 1 mg/mL (0.70 mM); Suspended solution; Need ultrasonic				

### BIOLOGICAL ACTIVITY

<b>Description</b>	FKBP12 PROTAC RC32 (RC32) is a potent FKBP12 degrader based on PROTAC technology. FKBP12 PROTAC RC32 contains conjugation of Rapamycin (HY-10219) and a ligand for an E3 ubiquitin ligase (Pomalidomide; HY-10984) <sup>[1]</sup> .	
<b>IC<sub>50</sub> &amp; Target</b>	Cereblon	
<b>In Vitro</b>	FKBP12 PROTAC RC32 (RC32; 0.1-1000 nM; for 12 hours) results in 50% protein degradation (DC <sub>50</sub> ) of ~0.3 nM after only 12 hours of treatment <sup>[1]</sup> .	
	MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Western Blot Analysis <sup>[1]</sup>	
	Cell Line:	Jurkat cells

	Concentration:	0.1, 1, 10, 100, 1000 nM
	Incubation Time:	For 12 hours
	Result:	Resulted in 50% protein degradation (DC <sub>50</sub> ) of ~0.3 nM after only 12 h of treatment.
<b>In Vivo</b>	<p>RC32 (RC32; i.p.; 30 mg/kg; twice a day; 1 day) degrades the FKBP12 protein in most of the organs of treated mice, except for the brain after only 1 day of treatment in mice<sup>[1]</sup>.</p> <p>RC32 (orally; 60 mg/kg; twice a day; for 1 day) significantly degrades FKBP12 in mice<sup>[1]</sup>.</p> <p>RC32 (i.p.; 8 mg/kg; twice a day; for 2 days) efficiently degrades the FKBP12 protein in most of the organs examined in Bama pigs (20 kg)<sup>[1]</sup>.</p> <p>RC32 (i.p.; 8 mg/kg; twice a day; for 3 days) efficiently degrades FKBP12 in the heart, liver, kidney, spleen, lung, and stomach of rhesus monkeys<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>	
	Animal Model:	Male and female mice <sup>[1]</sup>
	Dosage:	30 mg/kg
	Administration:	IP; twice a day; 1 day
	Result:	Degraded the FKBP12 protein in most of the organs of treated mice after only 1 day of treatment.

## REFERENCES

[1]. A chemical approach for global protein knockdown from mice to non-human primates. Cell Discov. 2019 Feb 5;5:10.

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

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