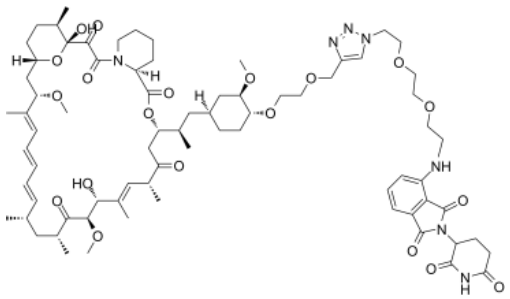
Product Data Sheet

Product Name: FKBP12 PROTAC RC32
Cat. No.: GC60843

Chemical Properties

Cas. No.	2375555-66-9		
SMILES	C/C([C@@H](OC)C[C@@]([H])(O[C@]1(C(C(N2[C@]([H])3CCCC2)=O)=O)O)CC[C@H]1C)=C\C=C\C=C\[C@@H](C)C[C@@H](C)C([C@H](OC)[C@H](O)/C(C)=C/[C@H](C(C[C@@H]([C@H](C)C[C@]4([H])CC[C@@H](OCCOCC5=CN(CCOCCOCCNC6=CC=CC(C(N7C8C(NC(CC8)=O)=O)=O)=C6C7=O)N=N5)[C@H](OC)C4)OC3=O)=O)C)=O		
Formula	$C_{75}H_{107}N_7O_{20}$	M.Wt	1426.69
Solubility	DMSO: 10 mg/mL (7.01 mM)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			



Background

FKBP12 PROTAC RC32 (RC32) is a potent FKBP12 degrader based on PROTAC technology. FKBP12 PROTAC RC32 contains conjugation of Rapamycin and a ligand for an E3 ubiquitin ligase (Pomalidomide;)[1].

Caution: Product has not been fully validated for medical applications. For research use only.
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FKBP12 PROTAC RC32 (RC32; 0.1-1000 nM; for 12 hours) results in 50% protein degradation (DC50) of ~0.3 nM after only 12 hours of treatment[1]. Western Blot Analysis[1] Cell Line: Jurkat cells

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[1]. RC32 (orally; 60 mg/kg; twice a day; for 1 day) significantly degrades FKBP12 in mice[1]. 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) [1]. 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[1]. Animal Model: Male and female mice[1]

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

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