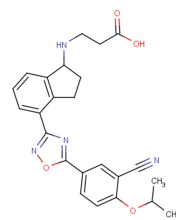


RP-001

**Chemical Properties**

CAS No.: 1306761-53-4  
Formula: C<sub>24</sub>H<sub>24</sub>N<sub>4</sub>O<sub>4</sub>  
Molecular Weight: 432.47  
Appearance: N/A  
Storage: 0-4°C for short term (days to weeks), or -20°C for long term (months).

**Biological Description**

Description	RP-001 is a selective agonist of picomolar short-acting S1P1 (EDG1)(EC50 of 9 pM), has little activity on S1P2-S1P4 and only moderate affinity for S1P5.
Targets(IC <sub>50</sub> )	Others: None
In vitro	dose-dependent lymphopenia of CD4+ T cells elicited by RP-001. RP-001 induces acute lymphopenia with rapid recovery to untreated levels.
In vivo	Dose-dependent rapid lymphopenia caused by RP-001 (EC50 of 0.03 mg/kg).

**Solubility Information**

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.312 mL	11.561 mL	23.123 mL
5 mM	0.462 mL	2.312 mL	4.625 mL
10 mM	0.231 mL	1.156 mL	2.312 mL
50 mM	0.046 mL	0.231 mL	0.462 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

1. Cahalan SM, et al. Actions of a picomolar short-acting S1P agonist in S1P -eGFP knock-in mice. Nat Chem Biol. 2011 May;7(5):254-6.

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