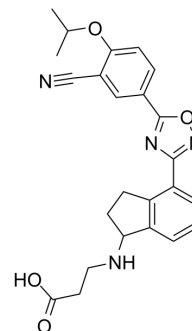


RP-001

Cat. No.:	HY-101939
CAS No.:	1306761-53-4
Molecular Formula:	C ₂₄ H ₂₄ N ₄ O ₄
Molecular Weight:	432.47
Target:	LPL Receptor
Pathway:	GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	RP-001 is a picomolar short-acting S1P ₁ (EDG1) selective agonist, with an EC ₅₀ of 9 pM. RP-001 induces internalization and polyubiquitination of S1P ₁ . RP-001 has little activity on S1P ₂ -S1P ₄ and only moderate affinity for S1P ₅ ^[1] .
In Vitro	RP-001 elicits dose-dependent lymphopenia of CD4 ⁺ T cells. RP-001 induces acute lymphopenia with rapid recovery to untreated levels ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	RP-001 causes dose-dependent rapid lymphopenia with an EC ₅₀ of 0.03 mg/kg ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Cahalan SM, et al. Actions of a picomolar short-acting S1P₁ agonist in S1P₁-eGFP knock-in mice. Nat Chem Biol. 2011 May;7(5):254-6.

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

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