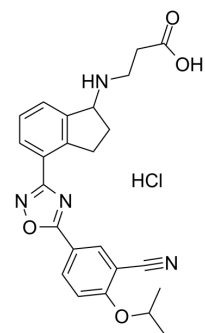


## RP-001 hydrochloride

<b>Cat. No.:</b>	HY-101939A
<b>CAS No.:</b>	1781880-34-9
<b>Molecular Formula:</b>	C <sub>24</sub> H <sub>25</sub> ClN <sub>4</sub> O <sub>4</sub>
<b>Molecular Weight:</b>	468.93
<b>Target:</b>	LPL Receptor
<b>Pathway:</b>	GPCR/G Protein
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA