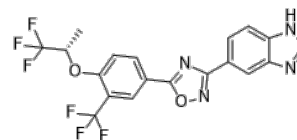


Product Name : ASP4058
Cat. No. : PC-27268
CAS No. : 952565-91-2
Molecular Formula : C₁₉H₁₂F₆N₄O₂
Molecular Weight : 442.32
Target : Lysophospholipid Receptor
Solubility : 10 mM in DMSO



Biological Activity

ASP4058 is a potent, next-generation S1P receptor agonist selective for S1P1 and S1P5 with EC₅₀ of 7.4 nM and 7.5 nM respectively.

ASP4058 stimulates S1P1 and S1P5, and more than 100-times higher concentration than S1P2, S1P3, and S1P4.

ASP4058 activates rS1P1 and rS1P3 comparable to cognate human S1P1 and S1P5 receptors.

ASP4058 reduced the peripheral lymphocyte counts of Lewis rats as a function of dose (ED₅₀ = 0.10 mg/kg 24 h after treatment, oral).

ASP4058 (0.03, 0.1 or 0.3 mg/kg, oral, vehicle: 0.5% methylcellulose) exhibits prophylactic effect on acute monophasic EAE in rats.

References

Yamamoto R, et al. PLoS One. 2014 Oct 27;9(10):e110819.

Yamamoto R, et al. Br J Pharmacol. 2017 Jul;174(13):2085-2101.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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