SLP9101555

Cat. No.: HY-150513

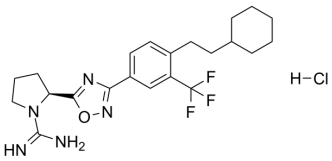
Molecular Formula: $C_{22}H_{29}ClF_3N_5O$

Molecular Weight: 471.95

Target: SphK

Pathway: Immunology/Inflammation

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	SLP9101555 (compound 14c) is a potent and selective SphK2 (sphingosine kinase 2) inhibitor (K_i=90 nM) with 200-fold selectivity over SphK1. SLP9101555 markedly decreases extracellular S1P (sphingosine 1-phosphate) levels[1].
IC_{50} & Target	K_i: 90 ± 11 nM (SphK2), 18000 ± 220 nM (SphK1)[1]
In Vivo	SLP9101555 (compound 14c) (5 mg/kg, IP, single) elicits profound increases in blood S1P[1] MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	C57BL/6 mice[1]
Dosage:	5 mg/kg
Administration:	IP, single
Result:	Resulted in the doubling of S1P levels in blood 4 h post dosing and returning close to baseline after 24 h.

REFERENCES

[1]. Srinath Pashikanti, et al. Sphingosine Kinase 2 Inhibitors: Rigid Aliphatic Tail Derivatives Deliver Potent and Selective Analogues. ACS Bio Med Chem Au 2022.

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