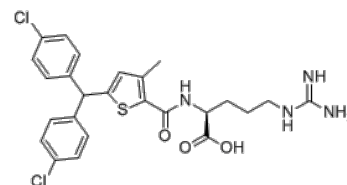


Product Name : C3aR antagonist JR14a
Cat. No. : PC-72006
CAS No. : 2411440-41-8
Molecular Formula : C₂₅H₂₆Cl₂N₄O₃S
Molecular Weight : 533.468
Target : Complement System
Solubility : 10 mM in DMSO



Biological Activity

C3aR antagonist JR14a is a potent and selective antagonist of human Complement C3a receptor (**hC3aR**) with IC₅₀ of 10 nM (Inhibition of intracellular Ca²⁺ release induced by 100 nM C3a).

JR14a shows no agonist activity against hC3aR and 100-fold more potent than SB290157 (Cat. PC-60789).

JR14a inhibited β-hexosaminidase secretion (IC₅₀=8 nM) from human LAD2 mast cells degranulated by 100 nM C3a.

JR14a demonstrated anti-inflammatory activity against agonist-induced paw edema in male Wistar rats.

References

Jessica A Rowley, et al. *J Med Chem.* 2020 Jan 23;63(2):529-541.

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

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