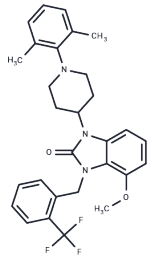
Data Sheet (Cat.No.T85988)

TargetMol

C5aR1 antagonist 2

Chemical Properties



CAS No. : 2365161-92-6

Formula:

Molecular Weight:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	C5aR1 antagonist 2 (Compound 6a), an orally active antagonist of C5a receptor 1 (C5aR1), effectively inhibits increases in neutrophil counts induced by C5a. This compound demonstrates potency in both DISCO and migration assays, with IC50 values of 21 and 3 nM, respectively. It is utilized in the study of acute and chronic inflammatory diseases [1].
Targets(IC50)	Complement System
In vivo	C5aR1 antagonist 2, administered orally at a dose range of 1-10 mg/kg once, effectively blocks CD11b upregulation in C5a-induced neutrophilia in rats in a dose-dependent manner [1]. It also inhibits C5a-induced neutrophilia in female Sprague-Dawley rats with hC5aR1 knockout [1]. Pharmacokinetic analysis [1] indicates that at a 10 mg/kg oral dose, the compound exhibits an AUC 0-last of 35700 ng·h/mL, C max of 3610 ng/mL, T max of 2.5 h, clearance (CL) of 39 mL/(min*kg), volume of distribution (V ss_obs) of 7.1 L/kg, and a half-life (t 1/2) of 3.7 hours.

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