

Product Data Sheet

Product Name: (R)-VU 6008667

Cat. No.: GC38110

Chemical Properties

Cas. No. 2097818-14-7

SMILES O=C1N2[C@](N(C(C3=CC=C(F)C(F)=C3)=O)CC2)(C4=CC=C(Cl)C(C)=C4)C5=C1C=C
C=C5

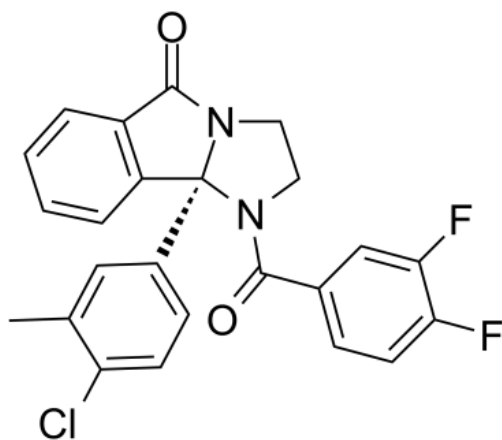
Formula $C_{24}H_{17}ClF_2N_2O_2$ M.Wt 438.85

Solubility DMSO: 100 mg/mL (227.87 mM) Storage Store at -20°C

General For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the tips ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Evaluation sample solution : ship with blue ice All other available size: ship with RT, or Condition blue ice upon request.

Structure



Background

(R)-VU 6008667, an active enantiomer of VU6008667, is a orally active acetylcholine receptor subtype 5 (M5 NAM) inhibitor with IC₅₀ values of 1.2 μM (human) and 1.6 μM (rat), respectively. (R)-VU6008667 is selective for M5 over M1-4, high CNS penetration[1].

(R)-VU6008667 (intravenous injection, 1mg/kg; orally administration, 3 mg/kg) displays the desired diminished elimination half-life (t_{1/2}= 2.3 hr) driven by a smaller volume (V_{ss}=7.4 L/kg) and higher

Caution: Product has not been fully validated for medical applications. For research use only.

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clearance (CL_p= 82 mL/min/kg), with moderate oral bioavailability (17% F) in rat. (PK study)[1].

[1]. Jung ME, et al. Discovery of indirubin derivatives as new class of DRAK2 inhibitors from high throughput screening. Bioorg Med Chem Lett. 2016 Jun 1;26(11):2719-23

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