

Product Data Sheet

Product Name: PF-05105679

Cat. No.: GC46199

Chemical Properties

Cas. No. 1398583-31-7

SMILES O=C(N([C@@H](C1=CC=C(F)C=C1)C)CC2=CC=CC(C(O)=O)=C2)C3=CC4=C(C=CC=C4)N=C3

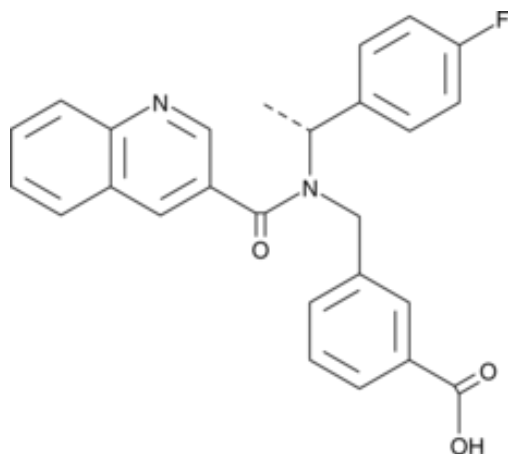
Formula C₂₆H₂₁FN₂O₃ M.Wt 428.5

Solubility DMSO: 10 mg/ml 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

PF-05105679 is an antagonist of transient receptor potential melastatin 8 (TRPM8; IC₅₀ = 103 nM for inhibition of voltage-activated currents in HEK293 cells expressing the human receptor).¹ It is greater than 100-fold selective for TRPM8 over a panel of 90 receptors, ion channels, and enzymes. PF-05105679 inhibits calcium flux induced by cold or the TRPM8 agonist WS-12 in HEK293 cells expressing the human TRPM8 (IC₅₀s = 480 and 181 nM, respectively). Intravenous infusion of PF-05105679 (46.67 µg/kg per minute) reverses cold-induced reductions in bladder capacity in anesthetized guinea pigs. It decreases the core body temperature in rats when administered at doses

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

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of 100 and 300 mg/kg.

[1. Winchester, W.J., Gore, K., Glatt, S., et al. Inhibition of TRPM8 channels reduces pain in the cold pressor test in humans. J. Pharmacol. Exp. Ther. 351(2), 259-269 (2014).

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