

Product Data Sheet

Product Name: CB1-IN-1

Cat. No.: GC30935

Chemical Properties

Cas. No. 1429239-98-4

SMILES ClC1=CC(Cl)=CC=C1N2C(C3=CC=C(C#CC4=CC=C(C(F)(F)F)C=C4)S3)=C(CNS(=O)(N5CCCCC5)=O)C(C(NN6CCCCC6)=O)=N2

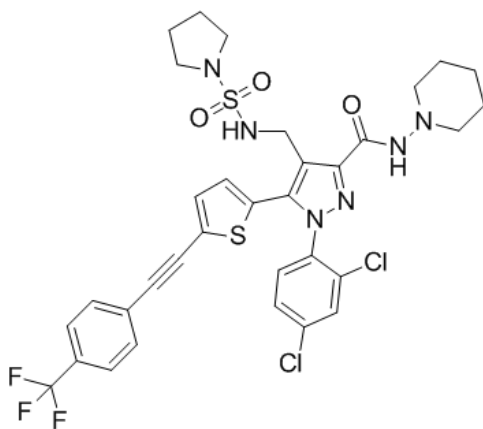
Formula $C_{33}H_{31}Cl_2F_3N_6O_3S_2$ M.Wt 751.67

Solubility DMSO: 125 mg/mL (166.30 mM) Storage Store at -20°C

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

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

Structure



Background

CB1-IN-1 is a peripherally restricted CB1R antagonist, with K_i of 0.3 nM and 21 nM for CB1R (EC_{50} = 3 nM) and CB2R, respectively. IC_{50} value: 0.3 nM (K_i , CB1R) 21 nM (K_i , CB2R) Target: CB1R *in vivo*: CB1-IN-1 is a novel peripherally restricted cannabinoid 1 receptor antagonist with significant weight-loss efficacy in diet-induced obese mice. CB1-IN-1 has great potential to ameliorate this related metabolic syndrome.

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

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[1]. Chang CP, et al. Discovery of 1-(2,4-dichlorophenyl)-N-(piperidin-1-yl)-4-((pyrrolidine-1-sulfonamido)methyl)-5-(5-((4-(trifluoromethyl)phenyl)ethynyl)thiophene-2-yl)-1H-pyrazole-3-carboxamide as a novel peripherally restricted cannabinoid-1 receptor anta

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