

Product Data Sheet

Product Name: CFMTI
Cat. No.: GC33146

Chemical Properties

Cas. No. 864864-17-5

SMILES O=C1N(C2CC2)CC3=C1C=CC(C4=C(C)N(C5=CC=CN=C5F)N=N4)=C3

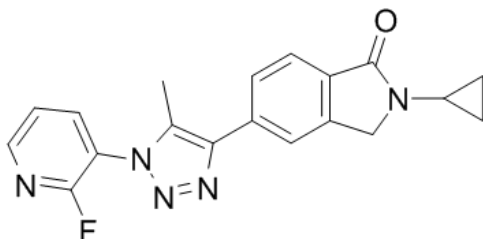
Formula $C_{19}H_{16}FN_5O$ M.Wt 349.36

Solubility DMSO : 6.2 mg/mL (17.75 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

CFMTI is a potent and selective metabotropic glutamate receptor (mGluR) 1 allosteric antagonist with IC₅₀ of 2.6 nM. The selectivity of CFMTI to mGluR1 over mGluR5 was >2000-fold. target : mGluR1
IC₅₀: 2.6 nM In vitro: The IC₅₀ values of CFMTI against human mGluR5 were 5400 ± 1200 nM,

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showing that the activity of CFMTI is more than 2000-fold weaker against human mGluR5 than against human mGluR1. CFMTI up to 10 μ M exhibited no agonistic activity toward any group I mGluR subtypes (data not shown). The IC₅₀ values of CFMTI were higher than 10 μ M against all targets, such as NMDA receptors. In vivo: CFMTI can dissolve in ethanol, polyethylene glycol 400, and distilled water (1:4:5, v/v/v) for intravenous administration. Oral administration of CFMTI inhibited DHPG-induced face-washing behavior in a dose-dependent manner. CFMTI produced dose-dependent inhibition of specific ex vivo binding of [³H]FTDC to striatal and cerebellar slices in mice. CFMTI significantly inhibit hyperlocomotion induced by MAP at a dose of 2 mg/kg.

[1]. Satow A et al. Unique antipsychotic activities of the selective metabotropic glutamate receptor 1 allosteric antagonist 2-cyclopropyl-5-[1-(2-fluoro-3-pyridinyl)-5-methyl-1H-1,2,3-triazol-4-yl]-2,3-dihydro-1H-isoindol-1-one. J Pharmacol Exp Ther. 2009 Jul;330(1):179-90.

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