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产品名称：CFMTI
产品别名：CFMTI

生物活性：

Description

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 : mGluR IC 50: 2.6 nM In vitro: The IC50 values of CFMTI against human mGluR5 were 5400 ± 1200 nM, showing that the activity of CFMTI is more than 2000-fold weaker against human mGluR5 than against human mGluR1. CFMTI up to 10 μM exhibited no agonistic activity toward any group I mGluR subtypes (data not shown). The IC50 values of CFMTI were higher than 10 μM 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]FTIDC to striatal and cerebellar slices in mice. CFMTI significantly inhibit hyperlocomotion induced by MAP at a dose of 2 mg/kg.

Solvent&Solubility

In Vitro:

DMSO : 6.2 mg/mL (**17.75 mM**; Need warming)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.8624 mL	14.3119 mL	28.6238 mL
	5 mM	0.5725 mL	2.8624 mL	5.7248 mL
	10 mM	0.2862 mL	1.4312 mL	2.8624 mL

*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液；一旦配成溶液，请分装保存，避免反复冻融造成的产品失效。

储备液的保存方式和期限：-80°C, 6 months; -20°C, 1 month。-80°C 储存时，请在 6 个月内使用，-20°C 储存时，请在 1 个月内使用。

References

[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.