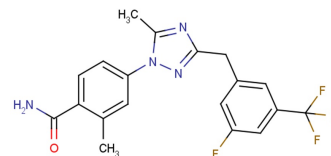


FTBMT

Chemical Properties

CAS No.:	1358575-02-6
Formula:	C ₁₉ H ₁₆ F ₄ N ₄ O
Molecular Weight:	392.35
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	FTBMT is a selective GPR52 agonist (EC ₅₀ : 75 nM) and has antipsychotic and procognitive properties.
Targets(IC ₅₀)	GPR52: 75 nM
In vitro	In CHO cells expressing human, mouse, or rat GPR52, FTBMT (0.1-10 μM) improves intracellular cAMP levels (pEC ₅₀ s of 7.03, 6.85, and 6.87, respectively) [2].
In vivo	In rats, FTBMT (3 or 10 mg/kg, 48 hours) improves recognition and spatial working memory. FTBMT (30 mg/kg, 90 minutes) shows antipsychotic-like activity without causing catalepsy in mice [2].

Solubility Information

Solubility	DMSO: 125 mg/mL (318.59 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.549 mL	12.744 mL	25.487 mL
5 mM	0.51 mL	2.549 mL	5.097 mL
10 mM	0.255 mL	1.274 mL	2.549 mL
50 mM	0.051 mL	0.255 mL	0.51 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Tokumaru K, et al. Design, synthesis, and pharmacological evaluation of 4-azoly-benzamide derivatives as novel GPR52 agonists. *Bioorg Med Chem.* 2017 Jun 15;25(12):3098-3115.
2. Nishiyama K, et al. FTBMT, a Novel and Selective GPR52 Agonist, Demonstrates Antipsychotic-Like and Procognitive Effects in Rodents, Revealing a Potential Therapeutic Agent for Schizophrenia. *J Pharmacol Exp Ther.* 2017 Nov;363(2):253-264.

Inhibitors · Natural Compounds · Compound Libraries

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