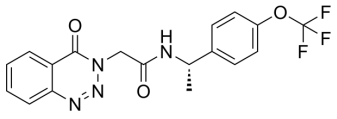
Zelatriazin

Cat. No.:	HY-132228
CAS No.:	1929519-13-0
Molecular Formula:	$C_{18}H_{15}F_3N_4O_3$
Molecular Weight:	392
Target:	GPR139
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (255.10 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.5510 mL	12.7551 mL	25.5102 mL
	5 mM	0.5102 mL	2.5510 mL	5.1020 mL
	10 mM	0.2551 mL	1.2755 mL	2.5510 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (6.38 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Zelatriazin (TAK-041; NBI-1065846) is a potent and selective GPR139 agonist with an EC_{50} of 22 nM. Zelatriazin has the potential for the research of negative symptoms associated with schizophrenia[1].

In Vivo

Zelatriazin (0.03-3 mg/kg; P.o.) improves social behavior in BALB/c mice[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	BALB/c mice[1]
Dosage:	0.03, 0.3, and 3 mg/kg
Administration:	P.o.

Result:	Dose-dependently improved the social behavior of BALB/c mice.

REFERENCES

[1]. Reichard HA, et al. Discovery of TAK-041: a Potent and Selective GPR139 Agonist Explored for the Treatment of Negative Symptoms Associated with Schizophrenia [published online ahead of print, 2021 Jul 14]. J Med Chem. 2021;10.1021/acs.jmedchem.1c00820.

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