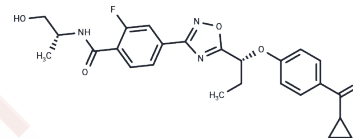


## Firuglipel

## Chemical Properties

CAS No. :	1371591-51-3
Formula:	C <sub>25</sub> H <sub>26</sub> FN <sub>3</sub> O <sub>5</sub>
Molecular Weight:	467.49
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Firuglipel is an orally available and selective agonist of GPR119.
Targets(IC50)	GPCR
In vitro	Firuglipel increases intracellular cAMP in a concentration-dependent manner in rat, human, and mouse GPR119-expressing Chinese hamster ovary (CHO)-K1 cells (EC <sub>50</sub> : 51.5, 98.4, and 108.1 nM, respectively). Firuglipel has no effect on intracellular cAMP in pcDNA3.1/CHO-K1 cells.
In vivo	Firuglipel (1-30 mg/kg) upregulates glucagon-like peptide-1. It also enhances glucose-dependent insulin secretion and improves glucose homeostasis in type 2 diabetic rats.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1391 mL	10.6954 mL	21.3908 mL
5 mM	0.4278 mL	2.1391 mL	4.2782 mL
10 mM	0.2139 mL	1.0695 mL	2.1391 mL
50 mM	0.0428 mL	0.2139 mL	0.4278 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

## Reference

Matsumoto K, et al. DS-8500a, an Orally Available G Protein-Coupled Receptor 119 Agonist, Upregulates Glucagon-Like Peptide-1 and Enhances Glucose-Dependent Insulin Secretion and Improves Glucose Homeostasis in Type 2 Diabetic Rats. J Pharmacol Exp Ther. 2018 Dec;367(3):509-517.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481