RP101988

Cat. No.: HY-136578

Molecular Formula: $C_{23}H_{22}N_4O_4$

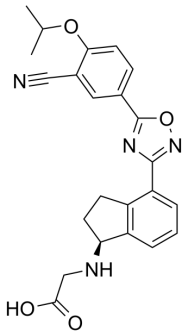
Molecular Weight: 418.45

Target: LPL Receptor; Drug Metabolite

Pathway: GPCR/G Protein; Metabolic Enzyme/Protease

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 : 125 mg/mL (298.72 mM; Need ultrasonic)

Preparing Stock Solutions

Concentration \ Mass (Solvent)	1 mg	5 mg	10 mg
1 mM	2.3898 mL	11.9489 mL	23.8977 mL
5 mM	0.4780 mL	2.3898 mL	4.7795 mL
10 mM	0.2390 mL	1.1949 mL	2.3898 mL

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

BIOLOGICAL ACTIVITY

Description

RP101988, the major active metabolite of Ozanimod, is a selective, potent S1PR1 (sphingosine-1-phosphate receptor 1) agonist, with EC_{50}s of 0.19 nM and 32.8 nM for S1PR1 and S1PR5, respectivlely[1].

IC_{50} & Target

S1PR1	S1PR5
0.19 nM (EC50)	32.8 nM (EC50)

In Vitro

RP101988 is a substrate of P-gp and breast cancer resistance protein (BCRP) drug transporters[2].

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

REFERENCES

[1]. Tran JQ, et al. Cardiac Safety of Ozanimod, a Novel Sphingosine-1-Phosphate Receptor Modulator: Results of a Thorough QT/QTc Study. Clin Pharmacol Drug Dev. 2018;7(3):263-276.

[2]. Gilardi D, et al. PK, PD, and interactions: the new scenario with JAK inhibitors and S1P receptor modulators, two classes of small molecule drugs, in IBD [published

online ahead of print, 2020 Jul 1]. Expert Rev Gastroenterol Hepatol. 2020;1-10.

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