Ponesimod-d_7

Cat. No.: HY-10569S1

Molecular Formula: $C_{23}H_{18}D_7ClN_2O_4S$

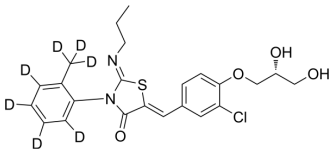
Molecular Weight: 468.02

Target: Isotope-Labeled Compounds

Pathway: Others

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 (213.67 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.1367 mL	10.6833 mL	21.3666 mL
	5 mM	0.4273 mL	2.1367 mL	4.2733 mL
	10 mM	0.2137 mL	1.0683 mL	2.1367 mL

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

BIOLOGICAL ACTIVITY

Description

Ponesimod-d_7 (ACT-128800-d_7) is the deuterium-labeled Ponesimod (HY-10569). Ponesimod-d_7 (ACT-128800) is a potent, selective and orally active agonist of $S1P_1$, with an IC_{50} of 6 nM in a radioligand binding assay. Ponesimod-d_7 activates $S1P_1$-mediated signal transduction with high potency (EC_{50}=5.7 nM). Ponesimod-d_7 can protect against lymphocyte-mediated tissue inflammation[1][2][3].

In Vitro

Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs[1].

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

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA