ZLN005-d_4

Cat. No.: HY-17538S

CAS No.: 2410443-42-2

Molecular Formula: $C_{17}H_{14}D_4N_2$

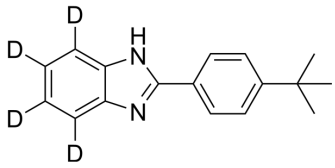
Molecular Weight: 254.36

Target: PGC-1α; Autophagy

Pathway: Metabolic Enzyme/Protease; Autophagy

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 (393.14 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	3.9314 mL	19.6572 mL	39.3144 mL
5 mM	0.7863 mL	3.9314 mL	7.8629 mL
10 mM	0.3931 mL	1.9657 mL	3.9314 mL

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

BIOLOGICAL ACTIVITY

Description

ZLN005-d_4 is deuterium labeled ZLN005. ZLN005 is a potent activator of peroxisome proliferator-activated receptor-γ coactivator-1α (PGC-1α)[1].

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.

REFERENCES

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019;53(2):211-216.

[2]. Zhang LN, et al. Novel small-molecule PGC-1α transcriptional regulator with beneficial effects on diabetic db/db mice. Diabetes. 2013 Apr;62(4):1297-307.

Caution: Product has not been fully validated for medical applications. For research use only.

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