Abemaciclib metabolite M2-d_6

Cat. No.: HY-128669S

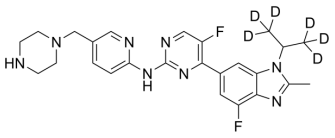
Molecular Formula: $C_{25}H_{22}D_6F_2N_8$

Molecular Weight: 484.58

Target: CDK

Pathway: Cell Cycle/DNA Damage

Storage: -20°C, sealed storage, away from moisture and light
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 2.12 mg/mL (4.37 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.0636 mL	10.3182 mL	20.6364 mL
	5 mM	---	---	---
	10 mM	---	---	---

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

BIOLOGICAL ACTIVITY

Description

Abemaciclib metabolite M2-d_6 is the deuterium labeled Abemaciclib metabolite M2. Abemaciclib metabolite M2 (LSN2839567) is a metabolite of Abemaciclib, acts as a potent CDK4 and CDK6 inhibitor, with IC50s in the range of 1-3 nM. Anti-cancer activity[1][2].

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]. Teresa Burke, et al. Abstract 2830: The major human metabolites of abemaciclib are inhibitors of CDK4 and CDK6. Cancer Research. July 2016, 76 (14).

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

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