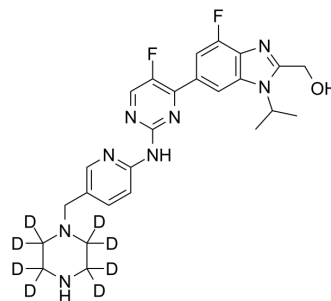


Abemaciclib metabolite M18-d8

Cat. No.:	HY-126534S
Molecular Formula:	C ₂₅ H ₂₀ D ₈ F ₂ N ₈ O
Molecular Weight:	502.59
Target:	Ligands for Target Protein for PROTAC; CDK
Pathway:	PROTAC; 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 : 32 mg/mL (63.67 mM; Need ultrasonic)					
	Preparing Stock Solutions	<div>Solvent Concentration</div>	Mass	1 mg	5 mg	10 mg
		1 mM		1.9897 mL	9.9485 mL	19.8969 mL
		5 mM		0.3979 mL	1.9897 mL	3.9794 mL
		10 mM		0.1990 mL	0.9948 mL	1.9897 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 1.78 mg/mL (3.54 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 1.78 mg/mL (3.54 mM); Suspended solution; Need ultrasonic					

BIOLOGICAL ACTIVITY

Description	Abemaciclib metabolite M18-d ₈ is the deuterium labeled Abemaciclib metabolite M18. Abemaciclib metabolite M18 (LSN3106729), the metabolite of Abemaciclib (HY-16297A), is a CDK inhibitor with antitumor activity. Abemaciclib metabolite M18 and a CRBN ligand have been used to design PROTAC CDK4/6 degrader[1][2].
In Vitro	<p>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].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

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- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019;53(2):211-216.
- [2]. Nathanael Gray, et al. Degradation of cyclin-dependent kinase 4/6 (cdk4/6) by conjugation of cdk4/6 inhibitors with e3 ligase ligand and methods of use. WO2017185031A1.
- [3]. Edward S. Kim, et al. Abemaciclib in Combination with Single-Agent Options in Patients with Stage IV Non–Small Cell Lung Cancer: A Phase Ib Study.
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Caution: Product has not been fully validated for medical applications. For research use only.

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