

Abemaciclib metabolite M18

Chemical Properties

CAS No. :	2704316-81-2
Formula:	C ₂₅ H ₂₈ F ₂ N ₈ O
Molecular Weight:	494.54
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year

Biological Description

Description	Abemaciclib metabolite M18 (LSN3106729) is a potent cyclin-dependent kinase (CDK) inhibitor with antitumor properties. It has been incorporated alongside a cereblon (CRBN) ligand to develop a proteolysis-targeting chimera (PROTAC) that selectively degrades CDK4/6 [1] [2].
Targets(IC50)	Ligands for Target Protein for PROTAC
In vitro	Abemaciclib metabolite M18 hydrochloride demonstrates a plasma half-life (T _{1/2}) of 43.1 hours in healthy subjects [3]. While the primary function of CDK4/6 inhibitors is to prevent retinoblastoma (RB) protein phosphorylation, leading to cell cycle arrest, they also modify cancer cell biology through additional mechanisms [4].
In vivo	CDK4/6 inhibitors enhance T-cell persistence and boost immunological memory in mice administered with tumor-specific CD8+ T cells [5].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0221 mL	10.1104 mL	20.2208 mL
5 mM	0.4044 mL	2.0221 mL	4.0442 mL
10 mM	0.2022 mL	1.011 mL	2.0221 mL
50 mM	0.0404 mL	0.2022 mL	0.4044 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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