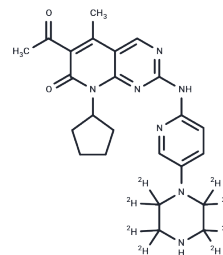


Palbociclib-D8

Chemical Properties

CAS No. :	1628752-83-9
Formula:	C ₂₄ H ₂₁ D ₈ N ₇ O ₂
Molecular Weight:	455.58
Storage:	Store at low temperature
	Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Palbociclib-D8 is the 2H-labeled form of Palbociclib. Palbociclib (T1785) is an orally active CDK inhibitor that inhibits CDK4 and CDK6 (IC ₅₀ =11/16 nM). Palbociclib (T1785) has anti-tumor activity and is used in research for estrogen receptor-positive and HER2-negative breast cancer.
Targets(IC ₅₀)	CDK

Solubility Information

Solubility	H ₂ O: 5 mg/mL (10.98 mM), when pH is adjusted to 3 with 1M HCl, sonication and heating are recommended. DMSO: 1 mg/mL (2.2 mM), Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.195 mL	10.975 mL	21.950 mL
5 mM	0.439 mL	2.195 mL	4.390 mL
10 mM	0.2195 mL	1.0975 mL	2.195 mL
50 mM	0.0439 mL	0.2195 mL	0.439 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Fry DW, et al. Specific inhibition of cyclin-dependent kinase 4/6 by PD 0332991 and associated antitumor activity in human tumor xenografts. Mol Cancer Ther. 2004 Nov;3(11):1427-38.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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