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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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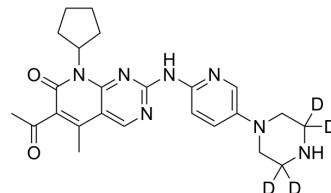
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Palbociclib-d₄

Cat. No.:	HY-W654305
CAS No.:	1628752-63-5
Molecular Formula:	C ₂₄ H ₂₅ D ₄ N ₇ O ₂
Molecular Weight:	451.56
Target:	Isotope-Labeled Compounds; CDK
Pathway:	Others; Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Palbociclib-d₄ is deuterium labeled Palbociclib. Palbociclib (PD 0332991) is an orally active selective CDK4 and CDK6 inhibitor with IC₅₀ values of 11 and 16 nM, respectively. Palbociclib has potent anti-proliferative activity and induces cell cycle arrest in cancer cells, which can be used in the research of HR-positive and HER2-negative breast cancer and hepatocellular carcinoma^{[1][3][4]}.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. 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.
- [3]. Goel S, et al. CDK4/6 inhibition triggers anti-tumour immunity. *Nature*. 2017 Aug 24;548(7668):471-475.
- [4]. Richard S Finn, et al. PD 0332991, a selective cyclin D kinase 4/6 inhibitor, preferentially inhibits proliferation of luminal estrogen receptor-positive human breast cancer cell lines in vitro. *Breast Cancer Res*. 2009;11(5):R77.
- [5]. Bollard J, et al. Palbociclib (PD-0332991), a selective CDK4/6 inhibitor, restricts tumour growth in preclinical models of hepatocellular carcinoma. *Gut*. 2017 Jul;66(7):1286-1296.

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

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