PLK1/BRD4-IN-2

Cat. No.: HY-160557

CAS No.: 2251709-89-2

Molecular Formula: $C_{27}H_{36}N_6O_3$

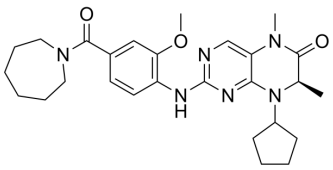
Molecular Weight: 492.61

Target: Epigenetic Reader Domain

Pathway: Epigenetics

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 10 mg/mL (20.30 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.0300 mL	10.1500 mL	20.3000 mL
	5 mM	0.4060 mL	2.0300 mL	4.0600 mL
	10 mM	0.2030 mL	1.0150 mL	2.0300 mL

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

BIOLOGICAL ACTIVITY

Description

PLK1/BRD4-IN-2 (compound 15) is a BI-2536 (HY-50698) analog and dual inhibitor that targets both Polo-like kinase 1 (PLK1) and BRD4bromodomain (BRD4-BD1 IC_{50}=28 nM, PLK1 IC_{50}=40 nM)[1].

IC_{50} & Target

BRD4
([1])

REFERENCES

[1]. Liu S, et al. Structure-Guided Design and Development of Potent and Selective Dual Bromodomain 4 (BRD4)/Polo-like Kinase 1 (PLK1) Inhibitors. J Med Chem. 2018 Sep 13;61(17):7785-7795.https://pubmed.ncbi.nlm.nih.gov/30125504/

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

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