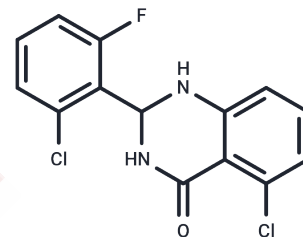


## PBRM1-BD2-IN-2

## Chemical Properties

CAS No. :	2819989-57-4
Formula:	C <sub>14</sub> H <sub>9</sub> Cl <sub>2</sub> FN <sub>2</sub> O
Molecular Weight:	311.14
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	PBRM1-BD2-IN-2, a selective and cell-active inhibitor of the polybromo-1 (PBRM1) bromodomain, exhibits binding affinity and inhibitory activity specifically targeting the PBRM1-BD2 domain, with K <sub>d</sub> and IC <sub>50</sub> values of 9.3 μM and 1.0 μM, respectively. This compound is utilized in cancer research.
Targets(IC <sub>50</sub> )	Epigenetic Reader Domain
In vitro	PBRM1-BD2-IN-2 (0, 0.1, 1, and 10 μM; 5 days) selectively inhibits the growth of a PBRM1-dependent prostate cancer cell line. It exhibits binding affinity for PBRM1-BD2, PBRM1-BD5, SMARCA2B, and SMARCA4 with K <sub>d</sub> values of 9.3 μM, 10.1 μM, 18.4 μM, and 69 μM, respectively, and inhibits PBRM1-BD2 with an IC <sub>50</sub> of 1.0 μM[1].

## Solubility Information

Solubility	DMSO: 45 mg/mL (144.63 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.214 mL	16.0699 mL	32.1399 mL
5 mM	0.6428 mL	3.214 mL	6.428 mL
10 mM	0.3214 mL	1.607 mL	3.214 mL
50 mM	0.0643 mL	0.3214 mL	0.6428 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

Shifali Shishodia, et al. Selective and Cell-Active PBRM1 Bromodomain Inhibitors Discovered through NMR Fragment Screening. J Med Chem. 2022 Oct 13.

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