

PBRM1-BD2-IN-5

## Chemical Properties

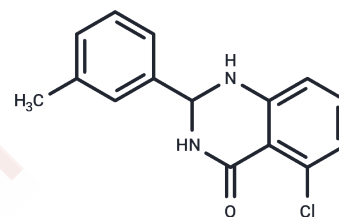
CAS No. : 2819989-61-0

Formula: C<sub>15</sub>H<sub>13</sub>ClN<sub>2</sub>O

Molecular Weight: 272.73

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-5 is a potent inhibitor of the PBRM1 Bromodomain, with dissociation constant (K <sub>d</sub> ) values of 1.5 μM and 3.9 μM for PBRM1-BD2 and PBRM1-BD5 respectively, and an inhibitory concentration 50 (IC <sub>50</sub> ) value of 0.26 μM for PBRM1-BD2. This compound effectively diminishes the interaction between full-length PBRM1 and acetylated histone peptide within the PBAF complex in cell lysates, making it a promising candidate for anticancer research.
Targets(IC <sub>50</sub> )	Epigenetic Reader Domain
In vitro	PBRM1-BD2-IN-5 (compound 16) (0-10 μM; 5 days) inhibits PBRM1-expressed LNCaP cells and reduces the binding of full-length PBRM1 within the PBAF complex in cell lysates to acetylated histone peptides[1].

## Solubility Information

Solubility	DMSO: 50 mg/mL (183.33 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (7.33 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	3.6666 mL	18.3332 mL	36.6663 mL
5 mM	0.7333 mL	3.6666 mL	7.3333 mL
10 mM	0.3667 mL	1.8333 mL	3.6666 mL
50 mM	0.0733 mL	0.3667 mL	0.7333 mL

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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

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

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481