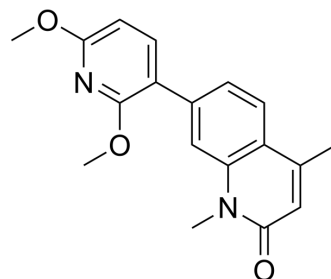


## BRD7-IN-2

<b>Cat. No.:</b>	HY-149420
<b>Molecular Formula:</b>	C <sub>18</sub> H <sub>18</sub> N <sub>2</sub> O <sub>3</sub>
<b>Molecular Weight:</b>	310.35
<b>Target:</b>	Epigenetic Reader Domain
<b>Pathway:</b>	Epigenetics
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



## SOLVENT & SOLUBILITY

In Vitro	DMSO : 10 mg/mL (32.22 mM; Need ultrasonic)					
	Preparing Stock Solutions	<div>Solvent Concentration</div>	Mass	1 mg	5 mg	10 mg
		1 mM	3.2222 mL	16.1108 mL	32.2217 mL	
		5 mM	0.6444 mL	3.2222 mL	6.4443 mL	
		10 mM	0.3222 mL	1.6111 mL	3.2222 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline					
	Solubility: ≥ 1 mg/mL (3.22 mM); Clear solution					

## BIOLOGICAL ACTIVITY

<b>Description</b>	BRD7-IN-2 (compound 2-77) is a potent inhibitor of bromodomain-containing protein 7 (BRD7), targeting to prostate cancer cells. BRD7-IN-2 is selective for BRD7 rather than BRD9, with IC <sub>50</sub> s of 5.4 μM, and >300 μM, respectively.
<b>IC<sub>50</sub> &amp; Target</b>	IC <sub>50</sub> : 5.4 μM (BRD7); Ki: 1.3 μM (BRD7)
<b>In Vitro</b>	BRD7-IN-2 (compound 2-77) inhibits BRD7 and BRD9 in HEK293T cells, with IC <sub>50</sub> s of 1.1 μM and 3.2 μM, respectively <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## REFERENCES

[1]. Ordóñez-Rubiano SC, Maschinot CA, Wang S, Sood S, Baracaldo-Lancheros LF, Strohmiere BP, McQuade AJ, Smith BC, Dykhuizen EC. Rational Design and Development of Selective BRD7 Bromodomain Inhibitors and Their Activity in Prostate Cancer. J Med Chem. 2023 Aug 24;66(16):11250-11270.

---

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA