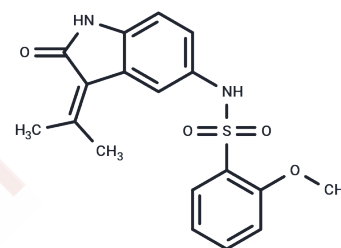


## BRD4 Inhibitor-20

## Chemical Properties

CAS No. :	2490311-14-1
Formula:	C <sub>18</sub> H <sub>18</sub> N <sub>2</sub> O <sub>4</sub> S
Molecular Weight:	358.41
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	BRD4 Inhibitor-20 is a potent bromodomain protein 4 (BRD4) inhibitor with oral activity, demonstrating antiproliferative effects in cancer cell lines and used in studies of various cancers, including colon cancer.
Targets(IC50)	Epigenetic Reader Domain
In vitro	BRD4 Inhibitor-20 has inhibitory activity for BRD4 (BD1) and BRD4 (BD2) with IC50 values of 19 nM and 28 nM, respectively. BRD4 Inhibitor-20 has anti-proliferation potency with IC50 values of 4.75 μM, 1.35 μM and 44.07 μM in HT-29, HL-60 and WI-38 cells, respectively[1].
In vivo	Oral BRD4 Inhibitor -20, 15mg/kg showed good oral pharmacokinetic characteristics[1].

## Solubility Information

Solubility	DMSO: 30 mg/mL (83.7 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	2.7901 mL	13.9505 mL	27.901 mL
5 mM	0.558 mL	2.7901 mL	5.5802 mL
10 mM	0.279 mL	1.3951 mL	2.7901 mL
50 mM	0.0558 mL	0.279 mL	0.558 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

Yu Xu, et al. Design, synthesis and biological evaluation of indole-2-one derivatives as potent BRD4 inhibitors. Eur J Med Chem. 2020 Dec 15;208:112780.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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