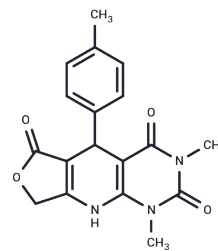


## BET bromodomain inhibitor 3

## Chemical Properties

CAS No. :	854137-39-6
Formula:	C <sub>18</sub> H <sub>17</sub> N <sub>3</sub> O <sub>4</sub>
Molecular Weight:	339.35
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	BET bromodomain inhibitor 3 is a BET inhibitor with activity against BrdT (K <sub>i</sub> > 40 μM). It serves as a chemical probe for studying epigenetic regulation in contraception and cancer research.
Targets(IC50)	Epigenetic Reader Domain
In vitro	BET bromodomain inhibitor 3 demonstrates robust anti-proliferative activity across various hematologic cancer lines. In KMS-28PE (plasmacytoma) and AMO-1 (multiple myeloma) cells, it induces significant cell cycle arrest and apoptosis at concentrations ranging from 0.001 to 10 μM. It also shows high potency against MV4-11 leukemia cells with a GI50 of 15 nM. By downregulating anti-apoptotic factors and disrupting cell cycle progression, it effectively impairs the viability of malignant cells [1][2].

## Solubility Information

Solubility	DMSO: 40 mg/mL (117.87 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	2.9468 mL	14.7341 mL	29.4681 mL
5 mM	0.5894 mL	2.9468 mL	5.8936 mL
10 mM	0.2947 mL	1.4734 mL	2.9468 mL
50 mM	0.0589 mL	0.2947 mL	0.5894 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

Liang, H.L., Arsenault, J., Mortensen, J., et al. Partial attenuation of cytotoxicity and apoptosis by SOD1 in ischemic renal epithelial cells. Apoptosis 14(10), 1176-1189 (2009).

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

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