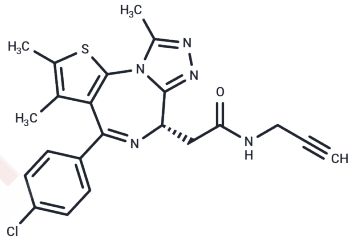
Data Sheet (Cat.No.T17311)

TargetMol

(+)-JQ1 PA

Chemical Properties



CAS No. : 2115701-93-2

Formula: C22H20ClN5OS

Molecular Weight: 437.95

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	(+)-JQ1 PA, a derivative of the Bromodomain and extra-terminal (BET) inhibitor JQ1, exhibits an IC50 of 10.4 nM.
Targets(IC50)	Epigenetic Reader Domain
In vitro	The IC50 of (+)-JQ1 PA for BET is 10.4 nM, and the IC50 of JQ1 is 14.3 nM in MV4;11 cells [1].

Solubility Information

Solubility	Ethanol: 50 mg/mL (114.17 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 (4.57 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2834 mL	11.4168 mL	22.8337 mL
5 mM	0.4567 mL	2.2834 mL	4.5667 mL
10 mM	0.2283 mL	1.1417 mL	2.2834 mL
50 mM	0.0457 mL	0.2283 mL	0.4567 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

Tyler DS, et al. Click chemistry enables preclinical evaluation of targeted epigenetic therapies. Science. 2017 Jun 30;356(6345):1397-1401.