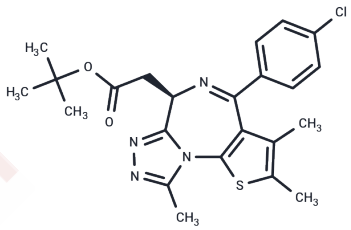
Data Sheet (Cat.No.T19618)

TargetMol

(R)-(-)-JQ1 Enantiomer

Chemical Properties



CAS No. : 1268524-71-5

Formula: C23H25ClN4O2S

Molecular Weight: 456.99

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	(R)-(-)-JQ1 Enantiomer is the stereoisomer of (+)-JQ1, a BET bromodomain inhibitor, which acts on BRD4(1/2) with IC50 values of 77 nM and 33 nM in a cell-free assay.
Targets(IC50)	Epigenetic Reader Domain

Solubility Information

Solubility	DMSO: 90 mg/mL (196.94 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: 3.3 mg/mL (7.22 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	2.1882 mL	10.9412 mL	21.8823 mL
5 mM	0.4376 mL	2.1882 mL	4.3765 mL
10 mM	0.2188 mL	1.0941 mL	2.1882 mL
50 mM	0.0438 mL	0.2188 mL	0.4376 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

Mahe M, et al. An FGFR3/MYC positive feedback loop provides new opportunities for targeted therapies in bladder cancers. EMBO Mol Med. 2018 Apr;10(4). pii: e8163.
Filippakopoulos, et al. Selective inhibition of BET bromodomains. Nature. 2010 Dec 23;468(7327):1067-73.

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