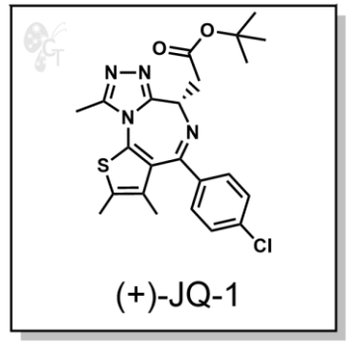
Product Specification Sheet

Product Name: (+)-JQ-1

Catalog Number: C5701



Technical information:

Chemical Formula:	$C_{23}H_{25}ClN_4O_2S$
CAS #:	1268524-70-4
Molecular Weight:	456.99
Purity:	> 98%
Appearance:	White solid
Solubility:	Soluble in DMSO up to 100 mM
Chemical Name:	(6S)-4-(4-Chlorophenyl)-2,3,9-trimethyl-6H-thieno[3,2-f][1,2,4]triazolo[4,3-a][1,4]diazepine-6-acetic acid 1,1-dimethylethyl ester
Storage:	For longer shelf life, store solid powder or DMSO solution at -20°C desiccated.
Shelf Life:	In the unopened package, powder is stable for 1 year and DMSO solution is stable for 6 months under proper storage condition.

Handling:

- To make 10 mM stock solution, add 0.219mL of DMSO for each mg of (+)-JQ-1.
- For DMSO solution, briefly spin the vial at 500 rpm in a 50 mL conical tube to ensure maximum sample recovery.

Biological Activity: (+)-JQ-1 is a highly potent and selective BET bromodomain BRD2/4 inhibitor that showed activity impairing mouse macrophage inflammatory response [1], activating HIV latency [2], and blocking the BET mediated acetylation and transcriptions of c-Myc [3].

Reference:

1. Anna C, et al. BET protein function is required for inflammation: Brd2 genetic disruption and BET inhibitor JQ1 impair mouse macrophage inflammatory responses. J Immunol. 2013; 190(7): 3670–3678. Pubmed ID: 23420887
2. Li Z, et al, The BET bromodomain inhibitor JQ1 activates HIV latency through antagonizing Brd4 inhibition of Tat-transactivation. Nucleic Acids Res. 2013; 41(1): 277–287. Pubmed ID: 23087374
3. Alqahtani A, et al. Bromodomain and extra-terminal motif inhibitors: a review of preclinical and clinical advances in cancer therapy. Future Sci OA. 2019; 5(3): FSO372 Pubmed ID: 30906568

To reorder: http://www.cellagentech.com/+-JQ-1/

For Technical Support: technical@cellagentech.com

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