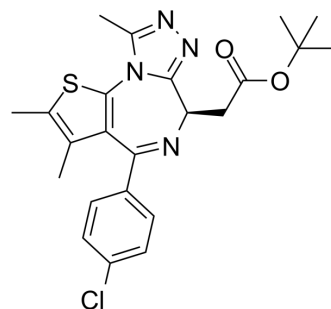


(R)-(-)-JQ1 Enantiomer

Cat. No.:	HY-13030A												
CAS No.:	1268524-71-5												
Molecular Formula:	C ₂₃ H ₂₅ ClN ₄ O ₂ S												
Molecular Weight:	456.99												
Target:	Epigenetic Reader Domain												
Pathway:	Epigenetics												
Storage:	<table border="0"> <tr> <td>Powder</td> <td>-20°C</td> <td>3 years</td> </tr> <tr> <td></td> <td>4°C</td> <td>2 years</td> </tr> <tr> <td>In solvent</td> <td>-80°C</td> <td>2 years</td> </tr> <tr> <td></td> <td>-20°C</td> <td>1 year</td> </tr> </table>	Powder	-20°C	3 years		4°C	2 years	In solvent	-80°C	2 years		-20°C	1 year
Powder	-20°C	3 years											
	4°C	2 years											
In solvent	-80°C	2 years											
	-20°C	1 year											



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (218.82 mM)
 * "≥" means soluble, but saturation unknown.

Concentration	Mass		
	1 mg	5 mg	10 mg
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

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: ≥ 2.75 mg/mL (6.02 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
 Solubility: ≥ 2.75 mg/mL (6.02 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.75 mg/mL (6.02 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

(R)-(-)-JQ1 Enantiomer is the stereoisomer of (+)-JQ1. (+)-JQ1 potently decreases expression of both BRD4 target genes, whereas (R)-(-)-JQ1 Enantiomer has no effect.

IC₅₀ & Target

BET bromodomain^[1]

In Vitro

(R)-(-)-JQ1 Enantiomer shows no significant interaction with any bromodomain. Besides, (R)-(-)-JQ1 Enantiomer is

comparatively inactive in nuclear protein in testis (NUT) midline carcinoma (NMC)^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Proc Natl Acad Sci U S A. 2019 Feb 19;116(8):2961-2966.
- EMBO Mol Med. 2018 Apr;10(4). pii: e8163.
- Cell Death Dis. 2020 Jun 15;11(6):459.
- Front Pharmacol. 2020 Jul 10;11:1043.
- J Mol Cell Cardiol. 2018 Dec 7;127:83-96.

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REFERENCES

[1]. Filippakopoulos, et al. Selective inhibition of BET bromodomains. Nature. 2010 Dec 23;468(7327):1067-73.

[2]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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