(+)-JQ1 PA

Cat. No.: HY-112789

CAS No.: 2115701-93-2

Molecular Formula: $C_{22}H_{20}ClN_5OS$

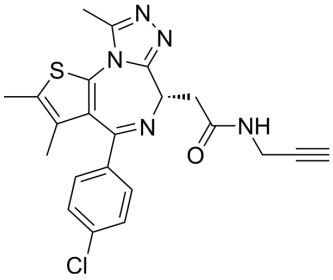
Molecular Weight: 438

Target: Epigenetic Reader Domain

Pathway: Epigenetics

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	2 years
	-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

Ethanol : 50 mg/mL (114.16 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.2831 mL	11.4155 mL	22.8311 mL
	5 mM	0.4566 mL	2.2831 mL	4.5662 mL
	10 mM	0.2283 mL	1.1416 mL	2.2831 mL

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

BIOLOGICAL ACTIVITY

Description

(+)-JQ1 PA is a derivative of the Bromodomain and extra-terminal (BET) inhibitor JQ1, with an IC_{50} of 10.4 nM. (+)-JQ1 PA is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAc) with molecules containing Azide groups.

IC_{50} & Target

10.4 nM (BET)[1].

In Vitro

(+)-JQ1 PA is a derivative of JQ1, which is the inhibitor of BET. The IC_{50} of (+)-JQ1 PA for BET is 10.4 nM, and the IC_{50} of JQ1 is 14.3 nM in MV4;11 cells[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

PROTOCOL

Cell Assay [1]

Proliferation of MV4;11 cells after 72 hours of treatment, comparing JQ1 versus JQ1-PA are tested. Cell cycle profile of

MV4;11 cells after 48 hours of treatment with DMSO, JQ1, JQ1-PA, or JQ1-TCO (all compounds used at 500 nM) are tested[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Patent. US20230117831A1.

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REFERENCES

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

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA