

Product Name: (+)-JQ1 carboxylic acid

Catalog No.: 6588

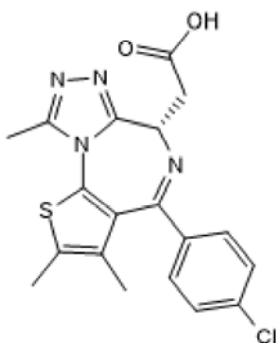
Batch No.: 1

CAS Number: 202592-23-2

IUPAC 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. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₁₇ClN₄O₂S
Batch Molecular Weight: 400.88
Physical Appearance: White solid
Solubility: DMSO to 100 mM
ethanol to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.33 (Dichloromethane:Methanol [95:5])
HPLC: Shows 98.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	56.93	4.27	13.98
Found	56.63	4.36	13.8

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

BET bromodomain inhibitor (+)-JQ1 (Cat. No. 4499) with a carboxylic acid functional group for conjugation reactions. Can be used as a precursor to a PROTAC® that targets BET bromodomains after conjugation to a linker and E3 ligase ligand. PROTAC® is a registered trademark of Arvinas Operations, Inc., and is used under license.

Physical and Chemical Properties:

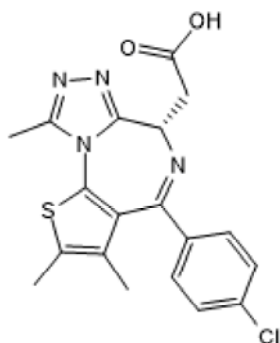
Batch Molecular Formula: C₁₉H₁₇ClN₄O₂S

Batch Molecular Weight: 400.88

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Gadd *et al* (2017) Structural basis of PROTAC cooperative recognition for selective protein degradation. *Nat.Chem.Biol.* **13** 514. PMID: 28288108.

Winter *et al* (2015) DRUG DEVELOPMENT. Phthalimide conjugation as a strategy for in vivo target protein degradation. *Science* **348** 1376. PMID: 25999370.

Zengerle *et al* (2015) Selective small molecule induced degradation of the BET bromodomain protein BRD4. *ACS Chem Biol.* **10** 1770. PMID: 26035625.

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