Web: www.taiclone.com
Tel: +886-2-2735-9682
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MS436

Catalog No: tcsc1729

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
1395084-25-9

Formula:
$C_{18}H_{17}N_5O_3S$

Pathway:
Epigenetics

Target:
Epigenetic Reader Domain

Purity / Grade:
>98%

Solubility:
DMSO : 25.5 mg/mL (66.51 mM; Need ultrasonic and warming)

Observed Molecular Weight:
383.42

Product Description

MS436 is a new class of **bromodomain** inhibitor, exhibits potent affinity of an estimated $\mathbf{K_i}$=30-50 nM for the BRD4 BrD1 and a 10-

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fold selectivity over the BrD2.

IC50 & Target: Ki: 30-50 nM (BRD4 bromodomain)[1]

In Vitro: MS436, through a set of water-mediated interactions, exhibits low nanomolar affinity (estimated K_i of 30-50 nM) with preference for the first bromodomain over the second. MS436 effectively inhibits BRD4 activity in NF-κB-directed production of NO and pro-inflammatory cytokine interleukin-6 in murine macrophages. MS436 represents a new class of bromodomain inhibitors and will facilitate further investigation of the biological functions of the two bromodomains of BRD4 in gene expression. MS436 exhibits potent affinity of an estimated K_i=30-50 nM for the BRD4 BrD1 and a 10-fold selectivity over the BrD2, which is achieved through a unique set of water-mediated intermolecular interactions[1].