Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

BMX-IN-1

Catalog No: tcsc1295

Available Sizes

Size: 2mg

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
1431525-23-3

Formula:
$C_{29}H_{24}N_4O_4S$

Pathway:
Protein Tyrosine Kinase/RTK;Protein Tyrosine Kinase/RTK

Target:
BMX Kinase;Btk

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 20 mg/mL (38.13 mM)

Alternative Names:
BMX kinase inhibitor

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Observed Molecular Weight:
524.59

Product Description

BMX-IN-1 is a selective, irreversible inhibitor of **bone marrow tyrosine kinase on chromosome X (BMX)** that targets Cys^{496} in the BMX ATP binding domain with **IC_{50}** of 8 nM, also targets the related Bruton's tyrosine kinase **(BTK)** with an **IC_{50}** value of 10.4 nM, but is more than 47-656-fold less potent against Blk, JAK3, EGFR, Itk, or Tec activity.

IC50 & Target: IC50: 8 nM (BMX), 10.4 nM (BTK)

In Vitro: BMX-IN-1 inhibits the proliferation of Tel-BMX-transformed Ba/F3 cells and RV-1 cells with IC_{50}s of 25 nM and 2.53 μM. BMX-IN-1 exhibits remarkable selectivity with an S(10) score of 0.01. BMX-IN-1 inhibits only wild-type BMX with an IC_{50} of 138 nM. BMX-IN-1 requires covalent modification of Cys^{496} of BMX to achieve potent inhibition[1].