

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

Observed Molecular Weight:

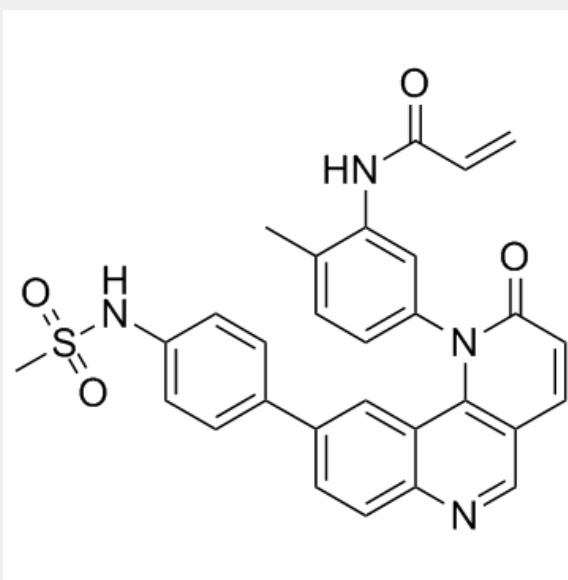
524.59

Product Description

BMX-IN-1 is a selective, irreversible inhibitor of **bone marrow tyrosine kinase on chromosome X (BMX)** that targets Cys⁴⁹⁶ in the BMX ATP binding domain with **IC₅₀** of 8 nM, also targets the related Bruton's tyrosine kinase (**BTK**) with an **IC₅₀** 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 IC₅₀s 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 IC₅₀ of 138 nM. BMX-IN-1 requires covalent modification of Cys⁴⁹⁶ of BMX to achieve potent inhibition^[1].



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