

JNK-IN-7

Catalog No: tcsc1554



Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg



Specifications

CAS No:

1408064-71-0

Formula:

$C_{28}H_{27}N_7O_2$

Pathway:

MAPK/ERK Pathway

Target:

JNK

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Alternative Names:

JNK inhibitor

Observed Molecular Weight:

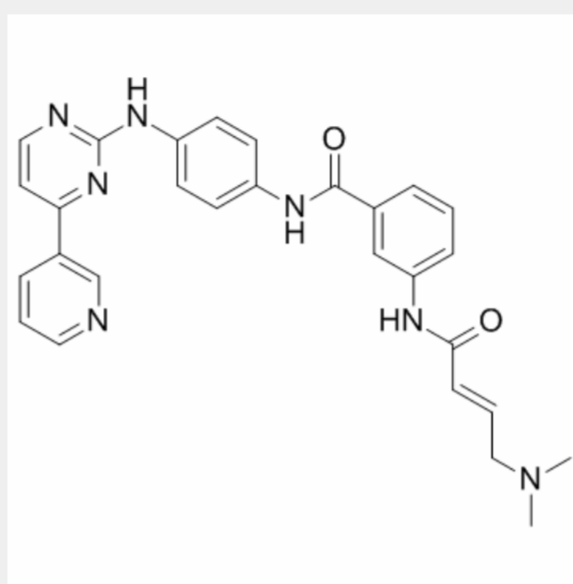
493.56

Product Description

JNK-IN-7 is a potent **JNK** inhibitor with **IC₅₀** of 1.5, 2 and 0.7 nM for **JNK1**, **JNK2** and **JNK3**, respectively.

IC50 & Target: IC50: 1.5 nM (JNK1), 2 nM (JNK2), 0.7 nM (JNK3)^[1]

In Vitro: JNK-IN-7 is a relatively selective JNK inhibitor in cells. In addition to JNK 1, 2, 3, JNK-IN-7 also binds to IRAK1 (IC₅₀=14.1 nM), YSK4 (IC₅₀=4.8 nM), ERK3 (IC₅₀=22 nM), PIK3C3, PIP5K3 and PIP4K2C^[1]. Expression of divalent metal-ion transporter 1 (DMT1) in HCT116 is demonstrated to be markedly decreased under stimulation with TNF for 24 and 48 h, while JNK-IN-7 can significantly reverse the decrease. TNF can down-regulate DMT1 expression, while JNK-IN-7 can markedly suppress this function^[2].



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