



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 ₇ O 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 IC_{50} 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(IC $_{50}$ =14.1 nM), YSK4 (IC $_{50}$ =4.8 nM), ERK3 (IC $_{50}$ =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 $^{[2]}$.

All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!