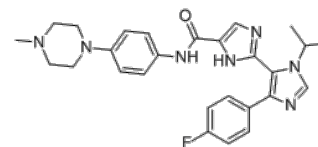


Product Name : INS018_055
Cat. No. : PC-21563
CAS No. : 2828567-39-9
Molecular Formula : C₂₇H₃₂FN₇O
Molecular Weight : 489.60
Target : TNIK
Solubility : 10 mM in DMSO



CAS: 2828567-39-9

Biological Activity

INS018_055 (INS018-055) a selective small-molecule TRAF2- and NCK-interacting kinase (**TNIK**) inhibitor with K_d value of 4.32 nM and IC₅₀ of 31 nM, inhibits TGF-β-induced α-SMA protein expression in MRC-5 cells with IC₅₀ of 27.14 nM.

INS018_055 demonstrates a broad affinity toward targeting fibrosis-related kinases.

INS018_055 potently inhibits TGF-β-mediated α-SMA expression in primary lung fibroblasts from patients with IPF, effectively inhibits key fibrotic pathways such as WNT-β-catenin, TGF-β-SMAD2, TNF-α-NF-κB and YAP-TAZ signaling.

INS018_055 (3, 10 or 30 mg per kg, BID) attenuates murine bleomycin-induced lung fibrosis.

INS018_055 reduces murine lipopolysaccharide-induced lung inflammation.

References

Patent WO2022179528A1.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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