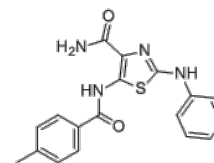


Product Name : KY-05009
Cat. No. : PC-36009
CAS No. : 1228280-29-2
Molecular Formula : C₁₈H₁₆N₄O₂S
Molecular Weight : 352.412
Target : TNIK
Solubility : 10 mM in DMSO



Biological Activity

KY-05009 (KY05009) is a potent, ATP-competitive inhibitor of Traf2- and Nck-interacting kinase (**TNIK**) with K_i of 100 nM. KY-05009 (KY05009) significantly and strongly inhibited the TGF-β-activated EMT through the attenuation of Smad and non-Smad signaling pathways, including the Wnt, NF-κB, FAK-Src-paxillin-related focal adhesion, and MAP kinases (ERK and JNK) signaling pathways in A549 cells.

KY-05009 (KY05009) synergistically inhibited IL-6-stimulated proliferation and induced apoptosis through the inhibition of Wnt signaling in MM cells when combined Dovitinib.

References

Kim J, et al. *PLoS One*. 2014 Oct 22;9(10):e110180.

Lee Y, et al. *Oncotarget*. 2017 Jun 20;8(25):41091-41101.

Yamada T, et al. (2010) TNIK inhibitor and its use. US2010/0216795.

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

E-mail: tech@probechem.com