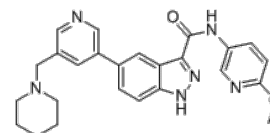


Product Name : SM04755
Cat. No. : PC-21435
CAS No. : 1428064-91-8
Molecular Formula : C₂₅H₂₆N₆O₂
Molecular Weight : 442.52
Target : Cdc2-like Kinase (CLK)
Solubility : 10 mM in DMSO



Biological Activity

Teplinovivint (SM04755) is a small molecule canonical **Wnt** signaling inhibitor, potently inhibited CLK2, CLK3, and DYRK1A with IC₅₀ of 5.0 nM, 48.6 nM and 3.5 nM, respectively.

SM04755 inhibits inflammation and promoted in vivo tendon healing in chronic and delayed-treatment models of tendinopathy in rats.

SM04755 dose-dependently inhibits the CLK-mediated phosphorylation of SRSF1, SRSF4, SRSF5, and SRSF6 in rTDSCs and hMSCs.

SM04755 induces tenocyte differentiation, reduce tendon-destroying proteases, and decrease inflammatory cytokine production.

References

Deshmukh V, et al. Osteoarthr Cartil. 2019;27(9):1-14.

Vishal Deshmukh, et al. J Orthop Res. 2021 Sep;39(9):2048-2061.

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

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