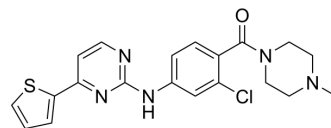


GSK-3β inhibitor 8

Cat. No.:	HY-120902
CAS No.:	1139875-74-3
Molecular Formula:	C ₂₀ H ₂₀ ClN ₅ OS
Molecular Weight:	413.92
Target:	GSK-3
Pathway:	PI3K/Akt/mTOR; Stem Cell/Wnt
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	GSK-3β inhibitor 8, a thiophenacil derivative, is an effective and selective inhibitor of GSK-3β (IC ₅₀ =64 nM). GSK-3β inhibitor 8 negatively regulated Wnt signaling pathway and stimulated β cell proliferation ^{[1][2]} .
IC₅₀ & Target	GSK-3β 64 nM (IC ₅₀)
In Vitro	GSK-3β inhibitor 8 (compound 1a) (1 nM-100 μM; 7 d) dose-dependently stimulates β-cell proliferation with an EC ₅₀ value of 1.41 μM. And GSK-3β inhibitor 8 (2 μM; 72 h) increases the replicating R7T1 β cells about 2-fold ^[1] . GSK-3β inhibitor 8 (1 nM-100 μM; 24 h) induces the activation of Super (8X) TOPFlash reporter with an EC ₅₀ value of 1.25 μM ^[1] . GSK-3β inhibitor 8 (2 μM; 72 h) stimulates the translocation of β-catenin into the nucleus in HEK293 cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Wang W, et al. Identification of small-molecule inducers of pancreatic beta-cell expansion. Proc Natl Acad Sci U S A. 2009 Feb 3;106(5):1427-32.

Caution: Product has not been fully validated for medical applications. For research use only.

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