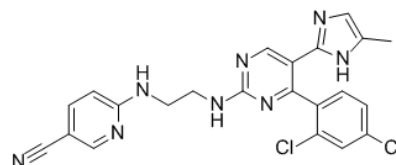


Product Name : CHIR-99021
Cat. No. : PC-42428
CAS No. : 252917-06-9
Molecular Formula : C₂₂H₁₈Cl₂N₈
Molecular Weight : 465.3379
Target : GSK-3
Solubility : DMSO: ≥ 5.1 mg/mL
4. Li W, et al. Stem Cells. 2009 Dec;27(12):2992-3000.



Biological Activity

A potent, specific GSK-3 inhibitor with IC₅₀ of 5 nM and 10 nM for GSK3β and GSK3α, respectively; mimics Wnt signaling in preadipocytes, stabilizes free cytosolic beta-catenin and inhibits adipogenesis by blocking induction of C/EBPα and PPARγ; potentiates insulin activation of glucose transport and utilization in vitro and in vivo; also widely used for stem cell differentiation and naive stem cell generation.

References

- Ying QL, et al. Nature. 2008 May 22;453(7194):519-23.
Ring DB, et al. Diabetes. 2003 Mar;52(3):588-95.
Bennett CN, et al. J Biol Chem. 2002 Aug 23;277(34):30998-1004.

