

Data Sheet

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Product Name : CHIR-99021 monohydrochloride

Cat. No. : PC-42429
CAS No. : 1797989-42-4
Molecular Formula : C₂₂H₁₉Cl₃N₈
Molecular Weight : 501.7989
Target : GSK-3

Solubility : 10 mM in DMSO

4. Li W, et al. Stem Cells. 2009 Dec;27(12):2992-3000.

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Biological Activity

A potent, specific GSK-3 inhibitor with IC50 of 5 nM and 10 nM for GSK3 β and GSK3 α , respectively; mimics Wnt signaling in preadipocytes, stabilizes free cytosolic beta-catenin and inhibits adipogenesis by blocking induction of C/EBP α and PPAR γ ; 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.