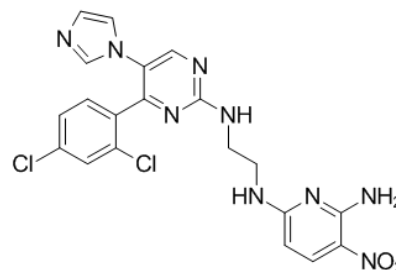


Product Name : CHIR-98014
Cat. No. : PC-43377
CAS No. : 252935-94-7
Molecular Formula : C₂₀H₁₇Cl₂N₉O₂
Molecular Weight : 486.3141
Target : GSK-3
Solubility : DMSO: 11 mg/mL



Biological Activity

CHIR-98014 is a potent, selective glycogen synthase kinase 3 (**GSK-3**) with IC₅₀ of 0.65 and 0.58 nM for GSK-3 α and GSK-3 β , respectively.

CHIR-98014 shows less potent activities against 20 other protein kinases including Cdc2 and Erk2; causes GS stimulation in CHO-IR cells and rat hepatocytes, with EC₅₀s of 106 nM and 107 nM, respectively.

CHIR-98014 reduces the viability of ES-CCE cells with IC₅₀ of 1.1 μ M, results in a significant activation of the Wnt/ β -catenin pathway in ES-D3 cells combined with CHIR-99021.

CHIR-98014 significantly reduces fasting hyperglycemia within and shows improved glucose disposal in diabetic and insulin-resistant db/db mice.

References

Ring DB, et al. *Diabetes*. 2003 Mar;52(3):588-95.

Lian X, et al. *Cell Reports*. 2015 Jan 13;4(1):170.

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

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