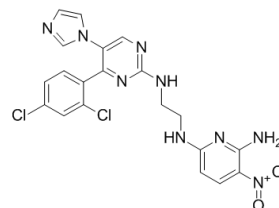


<b>Product Name</b>	: CHIR-98014
<b>Synonyms</b>	: CHIR98014; CHIR 98014
<b>Cat No.</b>	: M13748
<b>CAS Number</b>	: 252935-94-7
<b>Molecular Formula</b>	: C <sub>20</sub> H <sub>17</sub> Cl <sub>2</sub> N <sub>9</sub> O <sub>2</sub>
<b>Formula Weight</b>	: 486.31
<b>Chemical Name</b>	: 2,6-Pyridinediamine, N6-[2-[[4-(2,4-dichlorophenyl)-5-(1H-imidazol-1-yl)-2-pyrimidinyl]amino]ethyl]-3-nitro-
<b>Description</b>	<p>CHIR-98014 is a potent, selective glycogen synthase kinase 3 (GSK-3) with IC<sub>50</sub> of 0.65 and 0.58 nM for GSK-3α and GSK-3β, respectively; shows less potent activities against 20 other protein kinases including Cdc2 and Erk2; causes GS stimulation in CHO-IR cells and rat hepatocytes, with EC<sub>50</sub>s of 106 nM and 107 nM, respectively; reduces the viability of ES-CCE cells with IC<sub>50</sub> of 1.1 uM, results in a significant activation of the Wnt/beta-catenin pathway in ES-D3 cells combined with CHIR-99021; significantly reduces fasting hyperglycemia within and shows improved glucose disposal in diabetic and insulin-resistant db/db mice.</p>
<b>Pathway</b>	: PI3K/Akt/mTOR signaling
<b>Target</b>	: GSK-3
<b>Receptor</b>	: bFGFR; c-Src; GSK-3α; GSK-3β; p70S6K
<b>Solubility</b>	: DMSO: 11 mg/mL
<b>SMILES</b>	: <chem>NC1=C(C=CC(NCCNC2=NC=C(N3C=CN=C3)C(=N2)C2=C(Cl)C=C(Cl)C=C2)=N1)[N+](O-)=O</chem>
<b>Storage</b>	: (-20°C)
<b>Stability</b>	: ≥ 2 years
<b>Reference</b>	:



1. Ring DB, et al. Diabetes. 2003 Mar;52(3):588-95. | 2. Lian X, et al. Cell Reports. 2015 Jan 13;4(1):170.