

Product Name	: SRT2104
Synonyms	: SRT2104; SRT 2104; SRT-2104; GSK2245840
Cat No.	: M17806
CAS Number	: 1093403-33-8
Molecular Formula	: C ₂₆ H ₂₄ N ₆ O ₂ S ₂
Formula Weight	: 516.64
Chemical Name	: 4-methyl-N-(2-(3-(morpholinomethyl)imidazo[2,1-b]thiazol-6-yl)phenyl)-2-(pyridin-3-yl)thiazole-5-carboxamide
Description	SRT2104, also known as GSK2245840, is a novel, first-in-class, highly selective small molecule activator of the NAD⁺ dependent deacetylase SIRT1. SRT2104 has been developed as a selective small molecule activator of SIRT1, a NAD⁽⁺⁾-dependent deacetylase involved in the regulation of energy homeostasis and the modulation of various metabolic pathways, including glucose metabolism, oxidative stress and lipid metabolism. SIRT1 has been suggested as putative therapeutic target in multiple age-related diseases including type 2 diabetes and dyslipidemias.
Pathway	: Cell Cycle/DNA Damage
Target	: DNA/RNA Synthesis
Receptor	: SIRT1
Solubility	: DMSO : 5 mg/mL 9.68 mM; H ₂ O : < 0.1 mg/mL
SMILES	: <chem>Cc1c(sc(n1)c1cnccc1)C(=O)Nc1ccccc1c1cn2c(csc2n1)CN1CCOCC1</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Mercken EM, et al. Aging Cell. 2014, 13(5), 787-796.

