



SRT 1720

Catalog No: tcsc0437

Available	Sizes		
Size: 5mg			
Size: 10mg			
Size: 50mg			
Size: 100mg			
Specifica	tions		
CAS No: 925434-55-5			
Formula: C ₂₅ H ₂₃ N ₇ OS			
Pathway: Epigenetics;Cell Cy	/cle/DNA Damage		
Target: Sirtuin;Sirtuin			
Purity / Grade: >98%			
Solubility: 10 mM in DMSO			
Observed Molect 469.56	ılar Weight:		

Product Description

SRT 1720 is a selective activator of human **SIRT1** with an $\mathbf{EC_{1.5}}$ of 0.16 μ M, and shows less potent activities against SIRT2 and





SIRT3 with EC_{1 5}s of 37 μ M and > 300 μ M, respectively.

IC50 & Target: EC1.5: 0.16 μ M (SIRT1), 37 μ M (SIRT2), > 300 μ M (SIRT3)^[1]

In Vitro: SRT 1720 effectively decreases the acetylation of p53 in cells even in the absence of SIRT1, and this is attributed to inhibition of histone acetyltransferase $p300^{[2]}$.

In Vivo: SRT 1720 (10, 30, 100 mg/kg, p.o.) significantly reduces the hyperinsulinaemia after 4 weeks, partially normalizing elevated insulin levels similar to rosiglitazone treatment. SRT 1720 treatment significantly reduces fasting blood glucose to near normal levels in $Lep^{ob/ob}$ mice^[1]. SRT 1720 has ability to protect against the negative effects of diet-induced obesity in mice, and has a connection to metabolic adaptation in fatty acid and oxidative metabolism through downstream targets of SIRT1 such as PGC1 α and FOXO1^[2]. SRT 1720 (50-100 mg/kg, p.o.), during emphysema development attenuates elastase-induced airspace enlargement and lung function impairment as well as reduces arterial oxygen saturation in WT mice^[3].

All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!