Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

Selisistat

Catalog No: tcsc0960

Available Sizes

Size: 5mg

Size: 10mg

Size: 25mg

Specifications

CAS No:
49843-98-3

Formula:
$C_{13}H_{13}ClN_2O$

Pathway:
Epigenetics;Cell Cycle/DNA Damage

Target:
Sirtuin;Sirtuin

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 32 mg/mL (128.66 mM)

Alternative Names:
EX-527

Observed Molecular Weight:
248.71

Product Description

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Selisistat (EX-527) is a potent and selective **SIRT1** inhibitor with **IC_{50}** of 98 nM.

IC50 & Target: IC50: 98 nM (SIRT1), 19.6 μM (SIRT2), 48.7 μM (SIRT3)[4]

In Vitro: Selisistat (EX-527) is an inhibitor of SIRT1 enzymatic activity (IC_{50}, 98 nM), identified in a high-throughput screen using bacterially expressed human SIRT1. Selisistat (EX-527) inhibits SIRT1 in a concentration-dependent manner with an IC_{50} of 38 nM, in agreement with the activity on bacterially expressed SIRT1. Selisistat (EX-527) has much lower potency against SIRT2 (IC_{50}, 19.6 μM) or SIRT3 (IC_{50}, 48.7 μM) but does not inhibit class I/II HDAC activity at concentrations up to 100 μM[1]. Selisistat (EX-527) exerts an inhibitory effect on SIRT1 activity without affecting SIRT1 expression on both mRNA and protein levels[2].

In Vivo: Selisistat (EX-527) abolishes Resveratrol (RSV)-induced attenuation of microvascular inflammation in *ob/ob* septic mice. Finally, *ob/ob* mice in Sepsis+RSV group has significantly increased 7-day survival vs. Sepsis+Vehicle group[3].