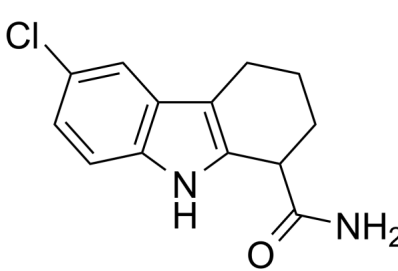


Certificate of Analysis

Catalog Number	BP13836
Product Name	Selisistat

Physical and Chemical Properties

Synonyms	EX-527, SEN0014196
CAS No.	49843-98-3
Chemical Formula	C ₁₃ H ₁₃ ClN ₂ O
Molecular Weight	248.71
Solubility	DMSO: 18.7 mg/mL (75 mM) Ethanol: 12.4 mg/mL (50 mM)
Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	

Product Information

Description	EX 527 is an effective and specific SIRT1 inhibitor (IC ₅₀ : 38 nM) and shows >200-fold selectivity against SIRT2/3.
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Targets&IC50	SIRT1:38 nM(cell free)
In vitro	Treatment with Selisistat (EX-527) dramatically increased acetylation at lysine 382 of p53 after different types of DNA damage in primary human mammary epithelial cells and several cell lines. Inhibition of SIRT1 catalytic activity by EX-527 had no effect on cell growth, viability, or p53-controlled gene expression in cells treated with etoposide . When the function of SIRT1 is inhibited by EX527 or its expression is suppressed by RNAi, the upregulated level and release of IL-1 β and TNF- α by high glucose are further increased . When HCT116 cells were cultured in 0.1% serum, addition of EX-527 caused a 90% increase in cell number after 7 days. In the presence of 10% serum, EX-527 did not change cell number in long term culture .
In vivo	The central pretreatment with Ex527 blunted the ghrelin-induced food intake in rats. Mice lacking p53, a target of SIRT1 action, failed to respond to ghrelin in feeding behavior. Ghrelin failed to phosphorylate hypothalamic AMPK when rats were pretreated with Ex527, as it did in p53 KO mice . EX-527 abolished RSV-induced attenuation of microvascular inflammation in ob/ob septic mice .

Analytical Data

HPLC	Shows Min >99% purity
H-NMR	Consistent with structure
Stability and Solubility Advice	Information on product stability, especially in solution, has rarely been reported and in most cases we can only provide a general guideline. We recommend that once the stock solution has been prepared, it be stored in equal quantities in sealed vials and used within 1 month. Avoid repeated freezing and thawing cycles. Storage conditions for some special products should be referred to their storage details.

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