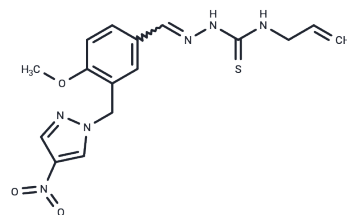


RK-9123016

Chemical Properties

CAS No. : 955900-27-3
Formula: C₁₆H₁₈N₆O₃S
Molecular Weight: 374.42
Appearance: no data available
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	RK-9123016 is a SIRT2 inhibitor. RK-9123016 increases the acetylation level of eukaryotic translation initiation factor 5A (eIF5A), a physiological substrate of SIRT2, and reduces cell viability of human breast cancer cells accompanied with a decrease in c-Myc expression.
Targets(IC ₅₀)	Sirtuin
In vitro	RK-9123016 inhibited the enzymatic activity of SIRT2 with an IC ₅₀ value of 0.18 μM but not other human sirtuin members including SIRT1 and SIRT3 at 100 μM in vitro electrophoretic mobility shift assay. RK-9123016 inhibited the SIRT2 activity in MCF-7 cells by concentration dependent manner (0-30 μM).

Solubility Information

Solubility	DMSO: 3.75 mg/mL (10 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6708 mL	13.354 mL	26.708 mL
5 mM	0.5342 mL	2.6708 mL	5.3416 mL
10 mM	0.2671 mL	1.3354 mL	2.6708 mL
50 mM	0.0534 mL	0.2671 mL	0.5342 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Shah AA, Ito A, Nakata A, Yoshida M. Identification of a Selective SIRT2 Inhibitor and Its Anti-breast Cancer Activity. Biol Pharm Bull. 2016;39(10):1739-1742. PubMed PMID: 27725455.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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