

Product Name	: RK-9123016
Synonyms	: RK 9123016; RK9123016
Cat No.	: M27923
CAS Number	: 955900-27-3
Molecular Formula	: C ₁₆ H ₁₈ N ₆ O ₃ S
Formula Weight	: 374.4
Chemical Name	: —
Description	<p>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. (In Vitro): RK-9123016 inhibited the enzymatic activity of SIRT2 with an IC₅₀ 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).</p>
Pathway	: Chromatin/Epigenetic
Target	: Sirtuin
Receptor	: Fatty Acid Synthase (FASN)
Solubility	: —
SMILES	: <chem>COc1ccc(\C=NNC(=S)NCC=C)cc1Cn1cc(cn1)[N+][O-]=O</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Giorgia Zadra, et al. Inhibition of de novo lipogenesis targets androgen receptor signaling in castration-resistant prostate cancer. Proc Natl Acad Sci U S A. 2019 Jan 8; 116(2):631-640.