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## SirReal2

产品编号: D50946

CAS: 709002-46-0

分子式: C<sub>22</sub>H<sub>20</sub>N<sub>4</sub>O<sub>2</sub>S<sub>2</sub>

纯度: ≥98%

InChi: InChI=1S/C<sub>22</sub>H<sub>20</sub>N<sub>4</sub>O<sub>2</sub>S<sub>2</sub>/c1-14-10-15(2)25-22(24-14)28-13-20(27)26-21-23-12-18(29-21)11-17-8-5-7-16-6-3-4-9-19(16)17/h3-10,12H,11,13H2,1-2H3,(H,23,26,27)

InChi Key: MENNDDDTIIZDDN-UHFFFAOYSA-N

Smiles: CC1C=C(C)N=C(N=1)SCC(=O)NC1=NC=C(CC2=CC=CC3=CC=CC=C23)S1

外观: 固体粉末

作用通路: Sirtuin

溶解性: DMSO up to 100 mM

保存条件: Store in dry, dark place for one year.

产品介绍: SirReal2 is a potent and selective Sirt2 inhibitor with IC<sub>50</sub> ~140 nM, has minimal effect on Sirt1 and Sirt3-6. It occupies the extended C-site and induces a major rearrangement of Sirt2' s active site, so it selectively inhibits Sirt2 and functions as a molecular wedge to lock Sirt2 in an open conformation. SirReal2 can increase tubulin hyperacetylation in HeLa cells and induces destabilization of the checkpoint protein BubR1. It could be a useful chemical tool for sirtuin biology.