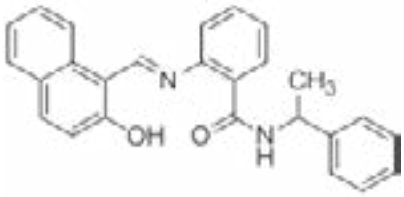
Sirtinol

Catalog Number P016-5MG

Catalog Number P016-25MG



FEATURES

- Inhibtor of NAD-dependant HDACs
- Cell permeable
- No effect on human HDAC1

INTRODUCTION

Cell-permeable, selective sirtuin deacetylase inhibitor (IC_{50} values are 38, 68 and 131 µM for SIRT2, Sir2p and SIRT1 respectively) that has no effect on HDAC1 activity. Significantly decreases growth and viability of PCa and HEK293T cells *in vitro*. Sirtinol inhibits yeast Sir2p transcriptional silencing activity *in vivo*, yeast Sir2p and human SIRT2 deacetylase activity *in vitro*.

FORM:	Yellow powder
MOLECULAR WEIGHT:	394.47
STORAGE:	- 20°C, desiccated
FORMULA:	$C_{26}H_{22}N_2O_2$
CAS NUMBER:	410536-97-9
OTHER NAMES:	Sir Two Inhibitor Naphthol, 2-[[(2-Hydroxy-1-naphthalenyl)methylene]amino]-N-(1-phenylethyl)benzamide
USES:	Soluble in DMSO to 35 mg/mL

REFERENCES:

Grozinger, Christina M., et al. (2001). Identification of a class of small molecule inhibitors of the sirtuin family of NAD-dependent deacetylases by phenotypic screening. *Journal of Biological Chemistry, 276*(42), 38837–38843.

Mai, Antonello, et al. (2005). Design, synthesis, and biological evaluation of sirtinol analogues as class III histone/protein deacetylase (Sirtuin) inhibitors. *Journal of Medicinal Chemistry, 48*(24), 7789–7795.

Jung-Hynes, B., et al. (2009). Role of sirtuin histone deacetylase SIRT1 in prostate cancer: A target for prostate cancer management via its inhibition? *Journal of Biological Chemistry, 284*(6), 3823–3832

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