

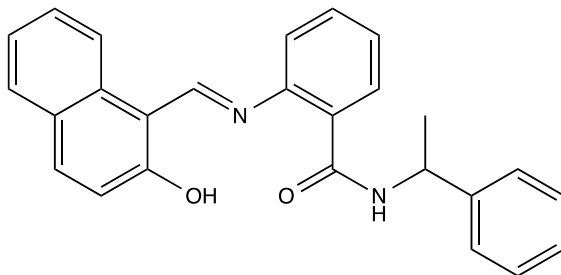
**Catalog # 10-1336**

**Sirtinol**

CAS# 410536-97-9

2-[[[2-Hydroxy-1-naphthalenyl)methylene]amino]-N-(1-phenylethyl)benzamide

Lot # FBM1306



Inhibitor of sirtuin family enzymes including human SIRT1 (IC<sub>50</sub>=60μM), human SIRT2 (IC<sub>50</sub>=58μM), and yeast Sir2 (IC<sub>50</sub>=48μM) with no inhibition of human HDAC1. Active *in vivo* and in purified enzyme studies. Cell permeable.

- 1) Ota *et al.*; (2006) *SIRT1 inhibitor, Sirtinol, induces senescence-like growth arrest with attenuated Ras-MAPK signaling in human cancer cells* Oncogene **25** 176
- 2) Mai *et al.* (2005) *Design, synthesis and biological evaluation of sirtinol analogues as class III histone/protein deacetylase (Sirtuin) inhibitors* J. Med. Chem. **48** 7789
- 3) Grozinger *et al.* (2001) *Identification of a class of small molecule inhibitors of the sirtuin family of NAD-dependent deacetylases by phenotypic screening* J. Biol. Chem. **276** 38837
- 4) Koering *et al.* (2002) *Human telomeric position effect is determined by chromosomal context and telomeric chromatin integrity* EMBO Rep. **3** 1055

**PHYSICAL DATA**

Molecular Weight:	394.47
Molecular Formula:	C <sub>26</sub> H <sub>22</sub> N <sub>2</sub> O <sub>2</sub>
Purity:	>98%
	NMR: (Conforms)
Solubility:	DMSO (up to 30 mg/ml)
Physical Description:	Pale yellow solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Protect from exposure to air. Solutions in DMSO may be stored at -20°C for up to 1 month.

**Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.**