

Sirtinol

Catalog No: 14074, 14075

Format: 25 mg, 5 mg

Chemical Properties:

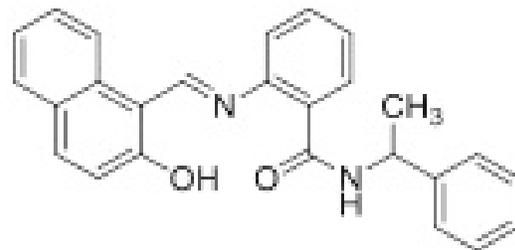
MW = 394.5

C₂₆H₂₂N₂O₂

CAS 410536-97-9

Physical Properties: Yellow powder

Names: Sirtinol, 2-[(2-Hydroxynaphthalen-1-ylmethylene)amino]-N-(1-phenethyl)benzamide



Pharmacology: Selective sirtuin inhibitor which does not effect HDAC1 (IC₅₀ = 131 M, 38 M and 68 M for SIRT1, SIRT2 and Sir2P respectively) (ref 1). Induces apoptotic and autophagic cell death in MCF-7 human breast cancer cell lines (ref 2). Suppresses survivin expression which correlates with decreased viability in HT29 colon cancer cells (ref 3). Displays pro-inflammatory effects in adipocytes (ref 4).

Solubilization: May be dissolved in DMSO (35 mg/ml); Ethanol (10 mg/ml)

Fluorescent Properties: N/A

Quality Control:

>98% (TLC); NMR (Conforms)

References:

1. CM Grosinger *et al. J. Biol. Chem.* 2001, 276:38837
2. J Wang *et al. Int. J. Oncol.* 2012, 41:1101
3. YF Hsu *et al. Biochim. Biophys. Acta* 2012, 1820:104
4. QQ Lin *et al. Cytokine* 2012, 60:447

Storage and Guarantee: Store desiccated as supplied at -20°C for up to 2 years. Store solutions at -20°C for up to 1 month. This product is guaranteed for 6 months from date of arrival.