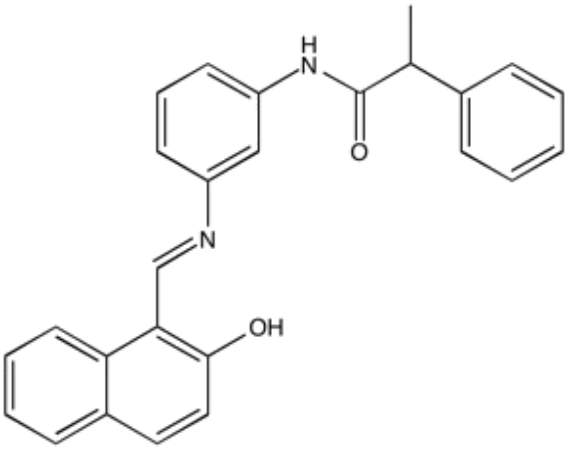
Catalog # 10-1514

Salermide

CAS# 1105698-15-4

N-[3-[[(2-Hydroxy-1-naphthalenyl)methylene]amino]phenyl]-α-methylbenzeneacetamide

Lot # S103093



SIRT1 and SIRT2 inhibitor. Exhibits a stronger inhibitory effect on SIRT2 than on SIRT1 *in vitro*. Induces the reactivation of proapoptotic genes repressed by SIRT1 and causes massive apoptosis in cancer cells within 24 hours.[1] Displays protective effect in nematodes expressing muscular dystrophy protein.[2] Promotes neuronal apoptosis confirming the protective effect of SIRT1.[3]

1) Lara *et al*. (2009), *Salermide, a Sirtuin inhibitor with a strong cancer-specific proapoptotic effect*; Oncogene, **28** 781

2) Pasco *et al*. (2010), *Characterization of sirtuin inhibitors in nematodes expressing a muscular dystrophy protein reveals muscle cell and behavioral protection by specific sirtinol analogues;* J. Med. Chem., **53** 1407

3) Zhao *et al*. (2012), *Interactions between SIRT1 and MAPK/ERK regulate neuronal apoptosis induced by traumatic brain injury in vitro and in vivo*; Exp. Neurol., **237** 489

PHYSICAL DATA

Molecular Weight:	394.47
Molecular Formula:	$C_{26}H_{22}N_2O_2$
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 40 mg/ml), DMF (up to 30 mg/ml), or Ethanol (up to 10 mg/ml with warming)
Physical Description:	Yellow solid
Storage and Stability:	Store as supplied, desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO, DMF or ethanol may be stored at -20°C for up to 1 month.

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