

## Catalog # 10-1514 Salermide

CAS# 1105698-15-4

 $N-[3-[[(2-Hydroxy-1-naphthalenyl)methylene]amino]phenyl]-\alpha-methylbenzeneacetamide\\ Lot \# S103093$ 

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.<sup>1</sup> Displays protective effect in nematodes expressing muscular dystrophy protein.<sup>2</sup> Promotes neuronal apoptosis confirming the protective effect of SIRT1.<sup>3</sup>

- 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

 $\begin{array}{ll} \mbox{Molecular Weight:} & 394.47 \\ \mbox{Molecular Formula:} & C_{26}\mbox{H}_{22}\mbox{N}_2\mbox{O}_2 \\ \mbox{Purity:} & 98\% \ \mbox{by TLC} \end{array}$ 

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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