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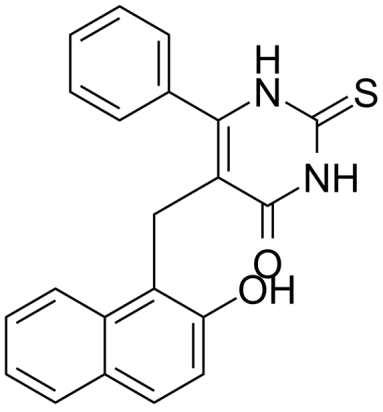
Certificate of Analysis

Catalog Number	BP10559
Product Name	Cambinol

Physical and Chemical Properties

Synonyms	SIRT1/2 Inhibitor IV, NSC 112546
CAS No.	14513-15-6
Chemical Formula	C21H16N2O2S
Molecular Weight	360.43
Solubility	Ethanol: 5 mg/mL DMSO: 10 mg/mL
Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	

Product Information

Description	Cambinol is a cell-permeable b-naphthol compound that inhibits the NAD-dependent deacetylase activity of SIRT1/2 (IC50: 56/59 μM, respectively) in a substrate-, but not NAD-, competitive manner. Cambinol inhibits SIRT5 deacetylase activity only at much higher concentrations (IC50 >300 μM) and no inhibitory for the class I and II HDACs. In BCL6-expressing Burkitt lymphoma cell lines, Cambinol-induced apoptosis has been attributed to the hyperacetylation of p53 and BCL6.Cambinol is a potent brain penetrant neutral sphingomyelinase (N-SMase) inhibitor (exosome inhibitor)
Targets&IC50	SIRT1: 56μM, SIRT2: 59 μM

Analytical Data

HPLC	Shows Min >99% purity
H-NMR	Consistent with structure
Stability and Solubility Advice	Information on product stability, especially in solution, has rarely been reported and in most cases we can only provide a general guideline. We recommend that once the stock solution has been prepared, it be stored in equal quantities in sealed vials and used within 1 month. Avoid repeated freezing and thawing cycles. Storage conditions for some special products should be referred to their storage details.

Purdue Bioscience Inc.

750 50th St, Brooklyn, NY 11220, USA

https://www.purduebio.com

1-877.618.7311

info@purduebio.com

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