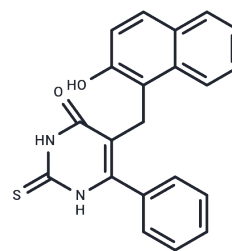


## Cambinol

## Chemical Properties

CAS No. :	14513-15-6
Formula:	C <sub>21</sub> H <sub>16</sub> N <sub>2</sub> O <sub>2</sub> S
Molecular Weight:	360.43
Appearance:	no data available
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year



## Biological Description

Description	Cambinol (SIRT1/2 Inhibitor IV) is a cell-permeable b-naphthol compound that inhibits the NAD-dependent deacetylase activity of SIRT1/2 (IC <sub>50</sub> : 56/59 μM, respectively) in a substrate-, but not NAD-, competitive manner. Cambinol inhibits SIRT5 deacetylase activity only at much higher concentrations (IC <sub>50</sub> >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(IC <sub>50</sub> )	Apoptosis, Phospholipase, Sirtuin

## Solubility Information

Solubility	DMSO: 36 mg/mL (100 mM), Sonication is recommended. Ethanol: 5 mg/mL (13.87 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7745 mL	13.8723 mL	27.7446 mL
5 mM	0.5549 mL	2.7745 mL	5.5489 mL
10 mM	0.2774 mL	1.3872 mL	2.7745 mL
50 mM	0.0555 mL	0.2774 mL	0.5549 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

### Reference

Lugrin J., et al. The sirtuin inhibitor cambinol impairs MAPK signaling, inhibits inflammatory and innate immune responses and protects from septic shock. *Biochim Biophys Acta*. 2013 Jun;1833(6):1498-510.

Figuera-Losada M., et al. Cambinol, a novel inhibitor of neutral sphingomyelinase 2 shows neuroprotective properties. *PLoS One*. 2015 May 26;10(5):e20124481.

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