



LKT Laboratories, Inc.

Cambinol

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Product Information

Product ID C0048

CAS No. 14513-15-6

Chemical Name

Synonym SIRT 1/2 inhibitor IV, SIRT1 Inhibitor II, NSC112546, SIRT2 Inhibitor VI.

Formula $C_{21}H_{16}N_2O_2S$

Formula Wt. 360.43

Melting Point

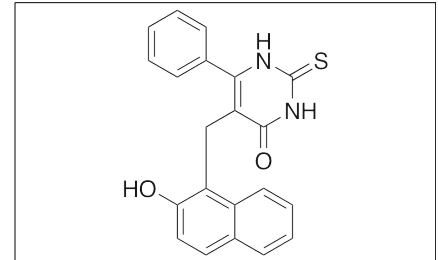
Purity $\geq 98\%$

Solubility Soluble in DMSO (≥ 10 mg/ml), and ethanol (5 mg/ml)

Store Temp $-20^{\circ}C$

Ship Temp Ambient

Description Cambinol is an inhibitor of sirtuins, particularly sirtuin1. Cambinol exhibits anti-inflammatory and anticancer chemotherapeutic activities. In various cell lines, cambinol suppresses MAPK and MEK signaling and inhibits expression of pro-inflammatory cytokines such as IL-1 β , IL-6, TNF- α , and IFN- γ . Additionally, cambinol improves survival of animal models of endotoxic shock and septic shock. In vitro, cambinol inhibits proliferation and increases differentiation and senescence in hepatocellular carcinoma cells. In vivo, cambinol inhibits xenograft growth in models of hepatocellular carcinoma and Burkitt's lymphoma.



Bulk quantities available upon request

Product ID	Size
C0048	5 mg
C0048	25 mg

References Lugin J, Ciardo E, Santos A, 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. PMID: 23499872.

Portmann S, Fahrner R, Lechleiter A, et al. Antitumor effect of SIRT1 inhibition in human HCC tumor models in vitro and in vivo. *Mol Cancer Ther*. 2013 Apr;12(4):499-508. PMID: 23339189.

Heltweg B, Gatbonton T, Schuler AD, et al. Antitumor activity of a small-molecule inhibitor of human silent information regulator 2 enzymes. *Cancer Res*. 2006 Apr 15;66(8):4368-77. PMID: 16618762.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.