



LKT Laboratories, Inc.

Sirtinol

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Product Information

Product ID S3470

CAS No. 410536-97-9

Chemical Name Sirtinol

Synonym

Formula $C_{26}H_{22}N_2O_2$

Formula Wt. 394.47

Melting Point

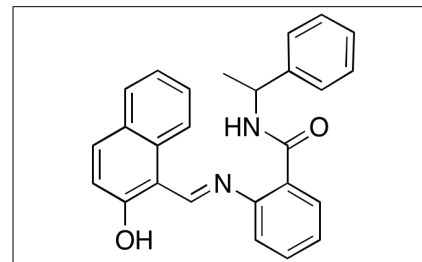
Purity $\geq 98\%$

Solubility Soluble in DMSO, 100%
ethanol or dimethyl
formamide.

Store Temp 4°C

Ship Temp Ambient

Description Sirtinol is a sirtuin inhibitor and iron chelator that exhibits antiviral, anti-inflammatory, anticancer, and anti-angiogenic activities. In vivo, sirtinol induces apoptosis-like changes in platelets, decreasing platelet count. In vitro, this compound decreases levels of hepatitis A virus RNA by suppressing translation and replication. Sirtinol also induces apoptosis in lung cancer cells by increasing levels of ROS. In other cellular models, sirtinol disrupts oocyte polarity and actin cap formation, preventing meiosis. In mesenchymal stem cells, this compound decreases tube formation and cell migration. Additionally, sirtinol also increases nasal polyp development and epithelial-to-mesenchymal transition (EMT) in vitro and in vivo. In animal models, sirtinol decreases paw edema.
TEST!!!!!!



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
S3470	1 mg	\$49.70
S3470	5 mg	\$137.90
S3470	25 mg	\$385.90

References Kanda T, Sasaki R, Nakamoto S, et al. The sirtuin inhibitor sirtinol inhibits hepatitis A virus (HAV) replication by inhibiting HAV internal ribosomal entry site activity. *Biochem Biophys Res Commun*. 2015 Oct 23;466(3):567-71. PMID: 26388050.

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Zhang L, Ma R, Hu J, et al. Sirtuin Inhibition Adversely Affects Porcine Oocyte Meiosis. *PLoS One*. 2015 Jul 15;10(7):e0132941. PMID: 26176547.

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Botti C, Caiafa I, Coppola A, et al. SIRT1 inhibition affects angiogenic properties of human MSCs. *Biomed Res Int*. 2014;2014:783459. PMID: 25243179.

Fong Y, Lin YC, Wu CY, et al. The antiproliferative and apoptotic effects of sirtinol, a sirtuin inhibitor on human

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