



LKT Laboratories, Inc.

Vorinostat

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## Product Information

Product ID V5734

CAS No. 149647-78-9

Chemical Name N-hydroxy-N'-phenyl-octanediamide

Synonym suberoylanilide hydroxamic acid, SAHA, Zolinza

Formula  $C_{14}H_{20}N_2O_3$

Formula Wt. 264.32

Melting Point 159-161C

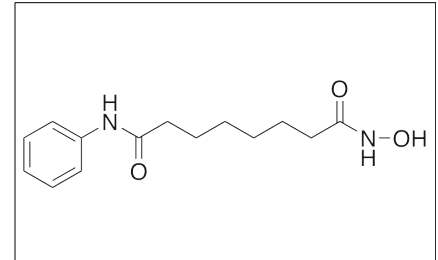
Purity  $\geq 98\%$

Solubility

Store Temp Ambient

Ship Temp Ambient

**Description** Vorinostat, also known as suberoylanilide hydroxamic acid, is a HDAC inhibitor that prevents the deacetylation of histones, therefore altering chromatin structure and inhibiting gene expression. In vitro, vorinostat promotes cell cycle arrest, induces apoptosis, and inhibits cellular proliferation. This compound is effective when administered with other synergistic treatments in glioblastoma stem-like cells and is currently in clinical trials as a potential treatment for a variety of gliomas. Additionally, vorinostat attenuates impairment of fear extinction in animal models and disrupts HIV latency in HIV-infected patients, suggesting it has additional antiviral benefit beyond its anticancer chemotherapeutic activity. Vorinostat also alters RNA splicing activity.



## Pricing and Availability

*Bulk quantities available upon request*

Product ID	Size	List Price
V5734	100 mg	\$71.70
V5734	250 mg	\$108.00
V5734	1 g	\$275.60

**References** Legartová S, Stixová L, Strnad H, et al. Basic nuclear processes affected by histone acetyltransferases and histone deacetylase inhibitors. *Epigenomics*. 2013 Aug;5(4):379-96. PMID: 23895652.

Matsumoto Y, Morinobu S, Yamamoto S, et al. Vorinostat ameliorates impaired fear extinction possibly via the hippocampal NMDA-CaMKII pathway in an animal model of posttraumatic stress disorder. *Psychopharmacology (Berl)*. 2013 Sep;229(1):51-62. PMID: 23584669.

Silva G, Cardoso BA, Belo H, et al. Vorinostat induces apoptosis and differentiation in myeloid malignancies: genetic and molecular mechanisms. *PLoS One*. 2013;8(1):e53766. PMID: 23320102.

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Archin NM, Liberty AL, Kashuba AD, et al. Administration of vorinostat disrupts HIV-1 latency in patients on antiretroviral therapy. *Nature*. 2012 Jul 25;487(7408):482-5. PMID: 22837004.

Asklund T, Kvarnbrink S, Holmlund C, et al. Synergistic killing of glioblastoma stem-like cells by bortezomib and HDAC inhibitors. *Anticancer Res*. 2012 Jul;32(7):2407-13. PMID: 22753697.

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