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Zuschläge

- Mindermengenzuschlag
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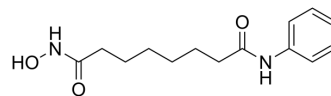
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Vorinostat (Standard)

Cat. No.:	HY-10221R
CAS No.:	149647-78-9
Molecular Formula:	C ₁₄ H ₂₀ N ₂ O ₃
Molecular Weight:	264.32
Target:	Mitophagy; Autophagy; HPV; Apoptosis; HDAC; Filovirus
Pathway:	Autophagy; Anti-infection; Apoptosis; Cell Cycle/DNA Damage; Epigenetics
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Vorinostat (Standard) is the analytical standard of Vorinostat. This product is intended for research and analytical applications. Vorinostat (SAHA) is a potent and orally active pan-inhibitor of HDAC1, HDAC2 and HDAC3 (Class I), HDAC6 and HDAC7 (Class II) and HDAC11 (Class IV), with ID ₅₀ values of 10 nM and 20 nM for HDAC1 and HDAC3, respectively. Vorinostat induces cell apoptosis ^{[1][4]} . Vorinostat is also an effective inhibitor of human papillomaviruse (HPV)-18 DNA amplification ^[7] .
IC₅₀ & Target	ID ₅₀ : 10 nM (HDAC1), 20 nM (HDAC3) ^[3] HDAC2, HDAC7 ^[1] , HDAC11 ^[4]

REFERENCES

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- [2]. Lautz TB, et al. The effect of vorinostat on the development of resistance to NSC 123127 in neuroblastoma. *PLoS One*. 2012;7(7):e40816.
- [3]. Richon VM, et al. A class of hybrid polar inducers of transformed cell differentiation inhibits histone deacetylases. *Proc Natl Acad Sci U S A*. 1998 Mar 17;95(6):3003-7.
- [4]. Xu WS, et al. Histone deacetylase inhibitors: molecular mechanisms of action. *Oncogene*. 2007 Aug 13;26(37):5541-52.
- [5]. Pérez-Cañamás A, et al. Sphingomyelin-induced inhibition of the plasma membrane calcium ATPase causes neurodegeneration in type A Niemann-Pick disease. *Mol Psychiatry*. 2017 May;22(5):711-723.
- [6]. Wang J, et al. Snail determines the therapeutic response to mTOR kinase inhibitors by transcriptional repression of 4E-BP1. *Nat Commun*. 2017 Dec 20;8(1):2207.
- [7]. Banerjee NS, et al. Vorinostat, a pan-HDAC inhibitor, abrogates productive HPV-18 DNA amplification. *Proc Natl Acad Sci U S A*. 2018 Nov 20;115(47):E11138-E11147.

Caution: Product has not been fully validated for medical applications. For research use only.

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