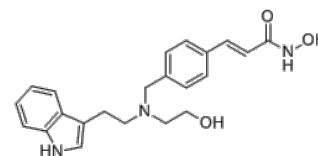


Product Name : Dacinostat
Cat. No. : PC-49004
CAS No. : 404951-53-7
Molecular Formula : C₂₂H₂₅N₃O₃
Molecular Weight : 379.5
Target : HDAC
Solubility : 10 mM in DMSO



Biological Activity

Dacinostat (NVP-LAQ824) is a potent histone deacetylase (**HDAC**) inhibitor with IC₅₀ of 32 nM, transcriptionally activates the p21 promoter in reporter gene assays with AC₅₀ of 0.3 uM.

LAQ824 (30 nM) resulted in a delayed (2 h) increase in reactive oxygen species (ROS), induction of p21(WAF1/CIP1), pRb dephosphorylation, growth arrest of cells in G(0)/G(1) phase, and differentiation in human leukemia cells (U937 and Jurkat).

NVP-LAQ824 selectively inhibited growth of cancer cell lines at submicromolar levels after 48-72 h of exposure.

NVP-LAQ824 increased histone H3 and H4 acetylation level in cancer cell lines.

NVP-LAQ824 exhibited antitumor effects in a xenograft animal model.

References

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Roberto R Rosato, et al. *Mol Pharmacol*. 2006 Jan;69(1):216-25.

Atadja P, et al. *Cancer Res*. 2004 Jan 15;64(2):689-95.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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