

TW9

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

Biological Description

Description	TW9 is a dual inhibitor of bromodomain 2 (BD2) in bromodomain-containing protein 4 (BRD4) and histone deacetylase 1 (HDAC1; IC50s = 0.074 and 0.29 μ M, respectively). It is selective for BD2 over BD1 in BRD4 (IC50= 0.72 μ M) and for HDAC1 over HDAC2 (IC50= 2.5 μ M). TW9 (50 nM) induces apoptosis in, and inhibits proliferation of, MIA PaCa-2 pancreatic cancer cells. It induces cell cycle arrest at the G1 phase in HPAC pancreatic cancer cells when used at a concentration of 2 μ M. TW9 acts synergistically with gemcitabine to reduce the viability of HPAC cells.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 10 mg/mL, Sonication is recommended. DMF: 20 mg/mL, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Reference

Zhang, X., Zegar, T., Weiser, T., et al. Characterization of a dual BET/HDAC inhibitor for treatment of pancreatic ductal adenocarcinoma. *Int. J. Cancer* 147(10):2847-2861 (2020)

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