

NB512

Chemical Properties

CAS No. :

Formula: C₂₆H₂₁N₅O₂

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	NB512 (compound 39a) is a dual inhibitor targeting both BET and HDAC, exhibiting high affinity for the BRD4 bromodomain and HDAC1/2, with EC ₅₀ values ranging from 100 to 400 nM. It demonstrates antiproliferative activity in cancer cell lines PaTu8988T and NMC.
Targets(IC ₅₀)	Epigenetic Reader Domain,HDAC
In vitro	NB512 at a concentration of 1 μM inhibits histone H3 K9/K14 deacetylation and increases the expression of BET target marker HEXIM1 and cell cycle regulatory gene p57 in a dose-dependent manner in PaTu8988T cells. This compound exhibits antiproliferative activity in PaTu8988T and NMC cells, with IC ₅₀ values of 3.6 and 0.42 μM, respectively. Additionally, NB512 at 1 μM reduces the expression of oncogenic transcription factors MYC and TP63 in NMC cells.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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