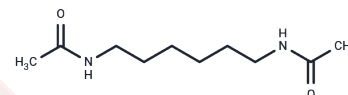


Hexamethylene bisacetamide

Chemical Properties

CAS No. : 3073-59-4
Formula: C₁₀H₂₀N₂O₂
Molecular Weight: 200.28
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	Hexamethylene bisacetamide inhibits BET Bromodomain Proteins.
Targets(IC50)	Apoptosis,Bcl-2 Family,Others,Epigenetic Reader Domain,NF-κB,Gamma-secretase,Akt, p38 MAPK,MDM-2/p53
In vitro	As expected of a BET inhibitor, HMBA displaced BET proteins from chromatin, caused massive transcriptional changes, and triggered cell-cycle arrest and apoptosis in Myc-induced B-cell lymphoma cells. Furthermore, HMBA exerted anticancer effects in vivo in mouse models of Myc-driven B-cell lymphoma[1].

Solubility Information

Solubility	DMSO: 25 mg/mL (124.83 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (9.99 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.993 mL	24.965 mL	49.9301 mL
5 mM	0.9986 mL	4.993 mL	9.986 mL
10 mM	0.4993 mL	2.4965 mL	4.993 mL
50 mM	0.0999 mL	0.4993 mL	0.9986 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Nilsson L M , Green L C , Muralidharan S V , et al. Cancer Differentiating Agent Hexamethylene Bisacetamide Inhibits BET Bromodomain Proteins[J]. Cancer Research, 2016, 76(8):2376.

Wu Y, Sun A, Yang Q, et al. An alpha-herpesvirus employs host HEXIM1 to promote viral transcription. Journal of Virology. 2024: e01392-23.

Marks P A , Rifkind R A . Induced differentiation of erythroleukemia cells by hexamethylene bisacetamide: a model for cytodifferentiation of transformed cells.[J]. Environmental Health Perspectives, 1989, 80:181-188.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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