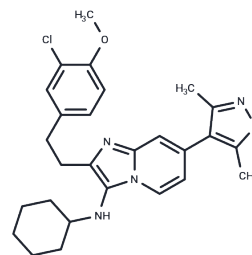


UMB298

Chemical Properties

CAS No. :	2266569-73-5
Formula:	C ₂₇ H ₃₁ ClN ₄ O ₂
Molecular Weight:	479.01
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	UMB298 is a potent and selective CBP/P300 bromodomain inhibitor that inhibits BRD4 with an IC ₅₀ of 5193nM.
Targets(IC ₅₀)	Epigenetic Reader Domain
In vitro	UMB298 inhibits MOLM13 and MM cells growth. UMB298 reduces the H3K27ac level similar to CBP30 and causes MYC depletion as a signature of CBP inhibition in acute myeloid leukemia. UMB298 down-regulates MYC expression in MOLM13 cells.

Solubility Information

Solubility	DMSO: 20 mg/mL (41.75 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 (4.18 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	2.0876 mL	10.4382 mL	20.8764 mL
5 mM	0.4175 mL	2.0876 mL	4.1753 mL
10 mM	0.2088 mL	1.0438 mL	2.0876 mL
50 mM	0.0418 mL	0.2088 mL	0.4175 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

Development of Dimethylisoxazole-Attached Imidazo[1,2- a]pyridines as Potent and Selective CBP/P300 Inhibitors [J]. Journal of medicinal chemistry, 64(9):5787-5801.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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