

CBL0137

Chemical Properties

CAS No. : 1197996-80-7

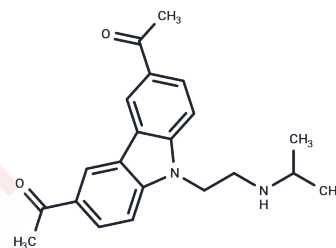
Formula: C₂₁H₂₄N₂O₂

Molecular Weight: 336.43

Store at low temperature

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	CBL0137 (Curaxin 137), a metabolically stable curaxin, activates p53 (EC ₅₀ : 0.37 μM) and inhibits NF-κB (EC ₅₀ : 0.47 μM). It functionally inactivates the facilitates chromatin transcription complex (FACT), driving the effects on p53 and NF-κB and promoting cancer cell death. CBL0137 has broad anticancer activity in mice when administered orally, eradicates drug-resistant cancer stem cells, and potentiates the efficacy of gemcitabine in preClinicalal models of pancreatic cancer.
Targets(IC50)	NF-κB,Histone Acetyltransferase,p53,MDM-2/p53

Solubility Information

Solubility	DMSO: 25 mg/mL (74.31 mM),Sonication is recommended. H ₂ O: Insoluble, (< 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 (5.94 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	2.9724 mL	14.8619 mL	29.7239 mL
5 mM	0.5945 mL	2.9724 mL	5.9448 mL
10 mM	0.2972 mL	1.4862 mL	2.9724 mL
50 mM	0.0594 mL	0.2972 mL	0.5945 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

Gasparian, AV. et al. Curaxins: Anticancer compounds that simultaneously suppress NF- κ B and activate p53 by targeting FACT. *Sci.Transl.Med.* 3(95), (2011).

Burkhart, C. et al. Curaxin CBL20137 eradicates drug resistant cancer stem cells and potentiates efficacy of gemcitabine in preClinicalal models of pancreatic cancer. *Oncotarget* 5(22), 11038-11053 (2014).

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