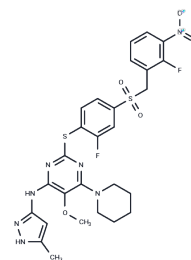


Centrinone-B

Chemical Properties

CAS No. :	1798871-31-4
Formula:	C ₂₇ H ₂₇ F ₂ N ₇ O ₅ S ₂
Molecular Weight:	631.67
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Centrinone-B (LCR-323) is a potent and highly selective PLK4 inhibitor with a K_i of 0.59 nM.
Targets(IC ₅₀)	PLK
In vitro	Centrinone-B (LCR-323) is a highly potent and selective PLK4 inhibitor that can reduce centrosomes without affecting Aurora A/B, and it induces apoptosis in most melanoma cell lines[2].

Solubility Information

Solubility	DMSO: 20 mg/mL (31.66 mM), Sonication is recommended. H ₂ O: < 0.1 mg/mL (insoluble) (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2 mg/mL (3.17 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	1.5831 mL	7.9155 mL	15.8311 mL
5 mM	0.3166 mL	1.5831 mL	3.1662 mL
10 mM	0.1583 mL	0.7916 mL	1.5831 mL
50 mM	0.0317 mL	0.1583 mL	0.3166 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

Wong YL, et al. Cell biology. Reversible centriole depletion with an inhibitor of Polo-like kinase 4. Science. 2015 Jun 5;348(6239):1155-60.

Denu RA, et al. Centriole Overduplication is the Predominant Mechanism Leading to Centrosome Amplification in Melanoma. Mol Cancer Res. 2018 Jan 12.

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