Purdue Bioscience

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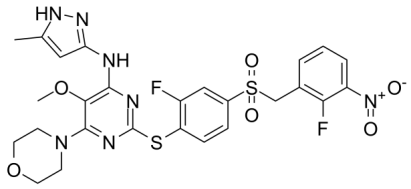
Certificate of Analysis

Catalog Number	BP13125
Product Name	Centrinone

Physical and Chemical Properties

Synonyms	LCR-263
CAS No.	1798871-30-3
Chemical Formula	C26H25F2N7O6S2
Molecular Weight	633.65
Solubility	DMSO: 31 mg/mL (48.92 mM)
Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	

Product Information

Description	Centrinone (LCR-263) is a reversible inhibitor of polo-like kinase 4 (PLK4; Ki:0.16 nM).

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Targets&IC50	Aurora A:171 nM (ki), Aurora B:436.76 nM (ki), PLK4 G95L:68.57 nM (ki), PLK4:0.16 nM (ki)
In vitro	Centrinone (LCR-263) treatment causes centrosome depletion in human and other vertebrate cells and it treatment reduces centriole number in multiciliated Xenopus epithelial cells, which indicates that Plk4 also controls centriole amplification in differentiated cells. Centrinone (LCR-263) treatment of HeLa human cervical carcinoma cells leads to a progressive reduction in foci containing centriolar and pericentriolar material markers at each round of cell division, until most cells lack centrioles and centrosomes. Centrosome loss irreversibly arrests normal cells in a senescence-like G1 state by a p53-dependent mechanism that is independent of DNA damage, stress, Hippo signaling, extends mitotic duration, or segregation errors.

Analytical Data

HPLC	Shows Min >99% purity
H-NMR	Consistent with structure
Stability and Solubility Advice	Information on product stability, especially in solution, has rarely been reported and in most cases we can only provide a general guideline. We recommend that once the stock solution has been prepared, it be stored in equal quantities in sealed vials and used within 1 month. Avoid repeated freezing and thawing cycles. Storage conditions for some special products should be referred to their storage details.

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