

Data Sheet

Product Information

Catalog Number	BP13125
Product Name	Centrinone
Description	Centrinone (LCR-263) is a reversible inhibitor of polo-like kinase 4 (PLK4; Ki:0.16 nM).
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 <i>Xenopus</i> 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.
Synonyms	LCR-263
CAS No.	1798871-30-3
Chemical Formula	C ₂₆ H ₂₅ F ₂ N ₇ O ₆ S ₂
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	

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