

BDP9066

## Chemical Properties

CAS No. : 2226507-04-4

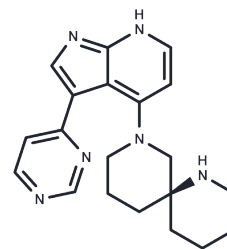
Formula: C<sub>20</sub>H<sub>24</sub>N<sub>6</sub>

Molecular Weight: 348.44

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	BDP9066 is a potent and selective MRCK inhibitor that inhibits MRCK $\beta$ and MRCK $\alpha/\beta$ and can be used for the prevention and treatment of skin cancer.
Targets(IC50)	ROCK,Ras
In vitro	Among over 750 human cancer cell lines tested, BDP9066 consistently exhibited anti-proliferative activity in hematologic cancer cells[1].
In vivo	As an effective and selective MRCK inhibitor, BDP9066, in a two-stage chemical carcinogenesis model of mouse squamous cell carcinoma, reduced MRCK $\alpha$ S1003 phosphorylation and the growth of skin tumors with local treatment.

## Solubility Information

Solubility	DMSO: 8 mg/mL (22.96 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: 1 mg/mL (2.87 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

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	1mg	5mg	10mg
1 mM	2.8699 mL	14.3497 mL	28.6993 mL
5 mM	0.574 mL	2.8699 mL	5.7399 mL
10 mM	0.287 mL	1.435 mL	2.8699 mL
50 mM	0.0574 mL	0.287 mL	0.574 mL

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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

Unbekandt M, et al. Discovery of Potent and Selective MRCK Inhibitors with Therapeutic Effect on Skin Cancer. *Cancer Res.* 2018 Apr 15;78(8):2096-2114.

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