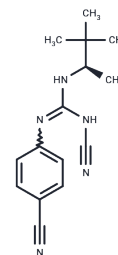


Naminidil

Chemical Properties

CAS No. :	220641-11-2
Formula:	C ₁₅ H ₁₉ N ₅
Molecular Weight:	269.34
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	Naminidil (BMS-234303) is an ATP-sensitive potassium channel opener with vasodilatory activity that was developed as a topical medication candidate for the treatment of androgenic alopecia. Naminidil is used in research to investigate potassium channel-mediated vasodilation, hair follicle biology, and localized drug delivery strategies.
Targets(IC50)	Potassium Channel
In vitro	Naminidil plays a role by the potassium (K) channel.

Solubility Information

Solubility	DMSO: 100 mg/mL (371.28 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: 3.3 mg/mL (12.25 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	3.7128 mL	18.5639 mL	37.1278 mL
5 mM	0.7426 mL	3.7128 mL	7.4256 mL
10 mM	0.3713 mL	1.8564 mL	3.7128 mL
50 mM	0.0743 mL	0.3713 mL	0.7426 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

Nora Chew, et al. Topical delivery of anti-alopecia agents. US20040096405A1.

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