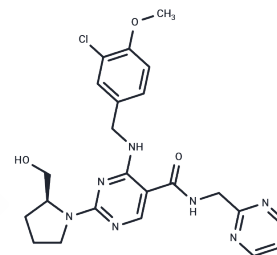


Avanafil

Chemical Properties

CAS No. :	330784-47-9
Formula:	C ₂₃ H ₂₆ ClN ₇ O ₃
Molecular Weight:	483.95
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	Avanafil (TA1790) is a selective inhibitor of phosphodiesterase type 5 (PDE5) and is used as therapy of erectile dysfunction.
Targets(IC50)	Endogenous Metabolite,NO Synthase,PDE
In vitro	In the corpus cavernosum of rats with Type 2 Diabetes Mellitus (T2DM), the injection of Avanafil (1 μM) has been demonstrated to enhance erectile function.

Solubility Information

Solubility	Ethanol: < 1 mg/mL (insoluble or slightly soluble), H ₂ O: < 1 mg/mL (insoluble or slightly soluble), DMSO: 90 mg/mL (185.97 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 (6.82 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	2.0663 mL	10.3316 mL	20.6633 mL
5 mM	0.4133 mL	2.0663 mL	4.1327 mL
10 mM	0.2066 mL	1.0332 mL	2.0663 mL
50 mM	0.0413 mL	0.2066 mL	0.4133 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

Kotera J, et al. J Urol. 2012, 188(2), 668-674.

Yilmaz D, et al. Urology. 2014, 83(2), 508, e7-12.

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