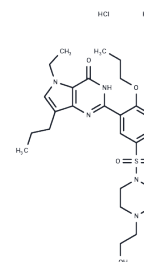


## Mirodenafil dihydrochloride

## Chemical Properties

CAS No. :	862189-96-6
Formula:	C <sub>26</sub> H <sub>39</sub> Cl <sub>2</sub> N <sub>5</sub> O <sub>5</sub> S
Molecular Weight:	604.59
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	Mirodenafil dihydrochloride is a PDE-5 inhibitor developed for the treatment of erectile dysfunction.
Targets(IC50)	Apoptosis,Glucocorticoid Receptor,PDE,Wnt/beta-catenin
In vivo	Mirodenafil, in doses of 50 or 100 mg, significantly improved erectile function and was well tolerated in a representative population of Korean men with broad-spectrum ED of various etiologies and severities [1]. The concurrent administration of mirodenafil with alcohol was not associated with clinically significant hemodynamic changes in these healthy male volunteers in Korea. The pharmacokinetics of mirodenafil were not significantly altered by this concurrent administration. Mirodenafil administered with alcohol had a tolerability profile comparable to that of mirodenafil alone [2].

## Solubility Information

Solubility	DMSO: 50 mg/mL (82.7 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: 2 mg/mL (3.31 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	1.654 mL	8.2701 mL	16.5401 mL
5 mM	0.3308 mL	1.654 mL	3.308 mL
10 mM	0.1654 mL	0.827 mL	1.654 mL
50 mM	0.0331 mL	0.1654 mL	0.3308 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

Paick, J.S., et al., Efficacy and safety of mirodenafil, a new oral phosphodiesterase type 5 inhibitor, for treatment of erectile dysfunction. *J Sex Med*, 2008. 5(11): p. 2672-80.

Kim, B.H., et al., Influence of alcohol on the hemodynamic effects and pharmacokinetic properties of mirodenafil: a single-dose, randomized-sequence, open-label, crossover study in healthy male volunteers in Korea. *Clin Ther*, 2009. 31(6): p. 1234-43.

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