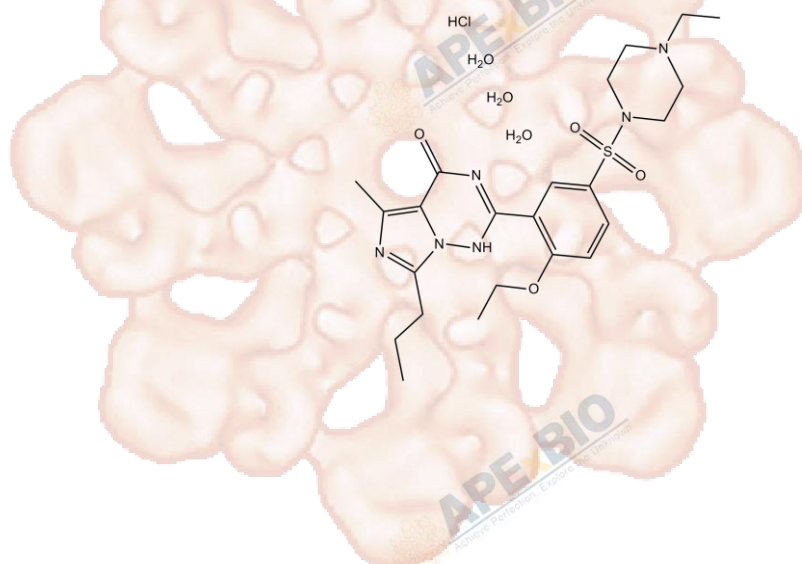


# Product Data Sheet

## Vardenafil HCl Trihydrate

<b>Cat. No.:</b>	A4323
<b>CAS No.:</b>	330808-88-3
<b>Formula:</b>	C <sub>23</sub> H <sub>32</sub> N <sub>6</sub> O <sub>4</sub> S·HCl·3H <sub>2</sub> O
<b>M.Wt:</b>	579.11
<b>Synonyms:</b>	
<b>Target:</b>	Metabolism
<b>Pathway:</b>	PDE
<b>Storage:</b>	Store at -20°C



### Solvent & Solubility

≥13.3 mg/mL in DMSO; ≥3.42 mg/mL in EtOH with gentle warming and ultrasonic; ≥95 mg/mL in H<sub>2</sub>O

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	<b>Concentration</b>			
	<b>1 mM</b>	1.7268 mL	8.6339 mL	17.2679 mL
	<b>5 mM</b>	0.3454 mL	1.7268 mL	3.4536 mL
	<b>10 mM</b>	0.1727 mL	0.8634 mL	1.7268 mL

Please refer to the solubility information to select the appropriate solvent.

### Biological Activity

Shortsummary

PDE5 inhibitor, potent and selective

IC<sub>50</sub> & Target

#### Cell Viability Assay

In Vitro

Cell Line:	Human trabecular smooth muscle cells
Preparation method:	This compound is soluble in DMSO. General tips for obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20 °C for several months.
Reacting conditions:	3, 10 or 30 nM

	Applications:	In human trabecular smooth muscle strips, Vardenafil HCl Trihydrate significantly enhanced SNP-induced relaxation.
In Vivo	<b>Animal experiment</b>	
	Animal models:	A conscious rabbit model
	Dosage form:	0.1, 0.3, 1 or 3 mg/kg; p.o.
	Applications:	In a conscious rabbit model, Vardenafil HCl Trihydrate dose-dependently potentiated erectile responses induced by SNP.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

## Product Citations

See more customer validations on [www.apexbt.com](http://www.apexbt.com).

## References

[1]. Saenz de Tejada I1, Angulo J, Cuevas P, Fernández A, Moncada I, Allona A, Lledó E, K?rschen HG, Niew?hner U, Haning H, Pages E, Bischoff E. The phosphodiesterase inhibitory selectivity and the in vitro and in vivo potency of the new PDE5 inhibitor vardenafil. Int J Impot Res. 2001 Oct;13(5):282-90.

## Caution

**FOR RESEARCH PURPOSES ONLY.**

**NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.**

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

**APExBIO Technology**



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[www.apexbt.com](http://www.apexbt.com)

7505 Fannin street, Suite 410, Houston, TX 77054.

Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: [info@apexbt.com](mailto:info@apexbt.com)

