

**Product Name:** Gisadenafil besylate

**Catalog No.:** 4165

**Batch No.:** 1

CAS Number: 334827-98-4

IUPAC Name: 5-[2-Ethoxy-5-[(4-ethyl-1-piperazinyl)sulfonyl]-3-pyridinyl]-3-ethyl-2,6-dihydro-2-(2-methoxyethyl)-7H-pyrazolo[4,3-d]pyrimidin-7-one benzenesulfonate

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>23</sub>H<sub>33</sub>N<sub>7</sub>O<sub>5</sub>S.C<sub>6</sub>H<sub>6</sub>O<sub>3</sub>S

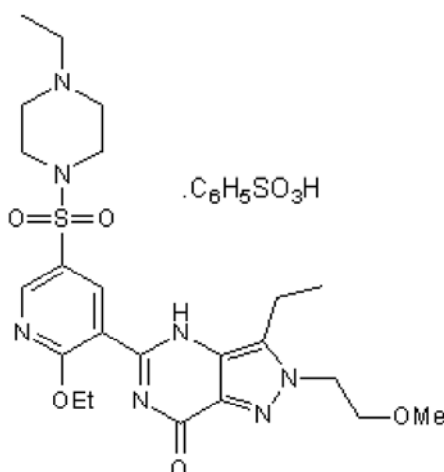
**Batch Molecular Weight:** 677.79

**Physical Appearance:** White solid

**Solubility:** water to 10 mM  
DMSO to 100 mM

**Storage:** Desiccate at RT

**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**HPLC:** Shows 99.2% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	51.39	5.8	14.47
Found	51.35	5.84	14.41

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Description:**

Gisadenafil besylate is a potent PDE5 inhibitor (IC<sub>50</sub> = 1.23 nM). Shows >100-fold selectivity for PDE5 over PDE6. Orally bioavailable.

**Physical and Chemical Properties:**

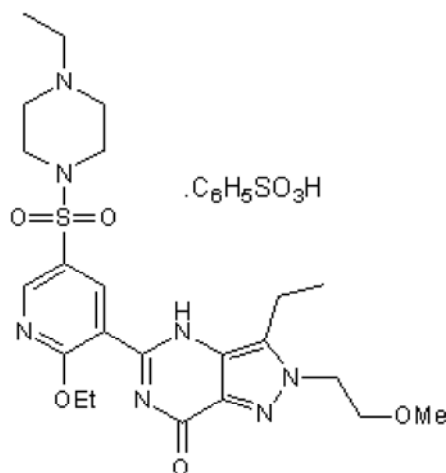
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Batch Molecular Weight: 677.79

Physical Appearance: White solid

**Minimum Purity:** ≥99%

**Batch Molecular Structure:**



**Storage:** Desiccate at RT

**Solubility & Usage Info:**

water to 10 mM

DMSO to 100 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**Licensing Information:**

Sold for research purposes under agreement from Pfizer Inc.

**References:**

**Rawson et al** (2012) The discovery of UK-369003, a novel PDE5 inhibitor with the potential for oral bioavailability and dose-proportional pharmacokinetics. *Bioorg.Med.Chem.* **20** 498. PMID: 22100260.

**Hashim and Abrams** (2010) Emerging drugs for the treatment of benign prostatic obstruction. *Exp.Opin.Invest.Drugs* **15** 159. PMID: 20446824.

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