

Product Name: JNJ 303

Catalog No.: 3899

Batch No.: 5

CAS Number: 878489-28-2

IUPAC Name: 2-(4-Chlorophenoxy)-2-methyl-N-[5-[(methylsulfonyl)amino]tricyclo[3.3.1.1^{3,7}]dec-2-yl]-propanamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₂₉ClN₂O₄S.½H₂O

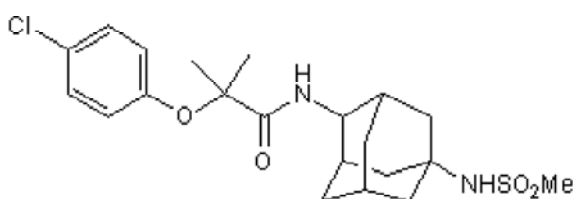
Batch Molecular Weight: 445.48

Physical Appearance: Off-white solid

Solubility: DMSO to 25 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.4% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	56.62	6.67	6.29
Found	56.48	6.68	6.34

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

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Description:

Potent I_{Ks} blocker (IC₅₀ = 64 nM). Displays no effects on other cardiac channels; IC₅₀ values are 3.3, >10, 11.1 and 12.6 μM for I_{Na}, I_{Ca}, I_{to} and I_{Kr} currents respectively. Prolongs QT and causes unprovoked torsades de pointes (TdP).

Physical and Chemical Properties:

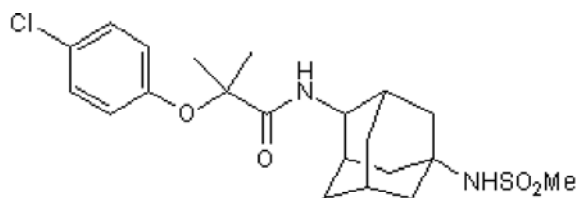
Batch Molecular Formula: C₂₁H₂₉ClN₂O₄S.½H₂O

Batch Molecular Weight: 445.48

Physical Appearance: Off-white solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 25 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 with the permission of Janssen Pharmaceutica NV

References:

Towart *et al* (2009) Blockade of the I_{Ks} potassium channel: an overlooked cardiovascular liability in drug safety screening? *J.Pharm.Toxicol.Meth* **60** 1.

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