

Product Name: Obatoclox mesylate

Catalog No.: 6539

Batch No.: 1

CAS Number: 803712-79-0

IUPAC Name: 2-[2-[(3,5-Dimethyl-1*H*-pyrrol-2-yl)methylene]-3-methoxy-2*H*-pyrrol-5-yl]-1*H*-indole methanesulfonate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₁₉N₃O·CH₃SO₃H·¼H₂O

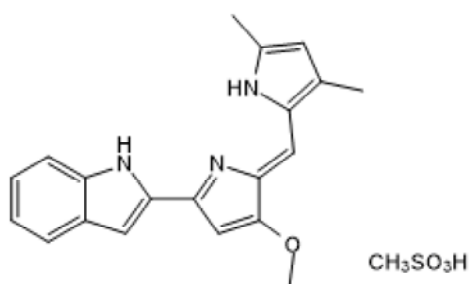
Batch Molecular Weight: 417.99

Physical Appearance: Brown solid

Solubility: DMSO to 50 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.3% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	60.34	5.67	10.05
Found	60.29	5.53	10.17

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

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Description:

Inhibitor of Bcl-2 family members (IC₅₀ values are 1.11 - 7 μM). Inhibits the interaction of a BH3 domain peptide with 6 members of the Bcl-2 family (Bcl-2, Bcl-XL, Mcl-1, Bcl-W, A1, and Bcl-B) in vitro. Has antiapoptotic and antitumor effects in several tumor bearing mouse models.

Physical and Chemical Properties:

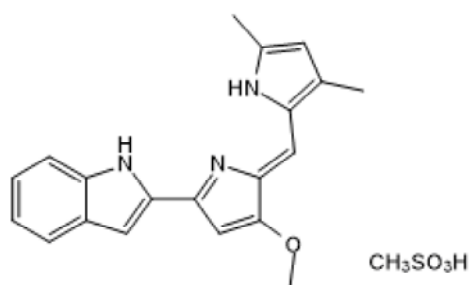
Batch Molecular Formula: C₂₀H₁₉N₃O.CH₃SO₃H.½H₂O

Batch Molecular Weight: 417.99

Physical Appearance: Brown solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Nguyen et al (2007) Small molecule obatoclax (GX15-070) antagonizes MCL-1 and overcomes MCL-1-mediated resistance to apoptosis. *Proc.Natl.Acad.Sci. U S A.* **104** 19512. PMID: 18040043.

Zhai et al (2006) Comparison of chemical inhibitors of antiapoptotic Bcl-2-family proteins. *Cell Death Differ.* **13** 1419. PMID: 16645636.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 50 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.

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