

Product Name: ABT 263

Catalog No.: 7680

Batch No.: 1

CAS Number: 923564-51-6

IUPAC Name: 4-[4-[[2-(4-Chlorophenyl)-5,5-dimethyl-1-cyclohexen-1-yl]methyl]-1-piperazinyl]-N-[[4-[[[(1R)-3-(4-morpholinyl)-1-(phenylthio)methyl]propyl]amino]-3-[(trifluoromethyl)sulfonyl]phenyl]sulfonyl]benzamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₄₇H₅₅ClF₃N₅O₆S₃·½H₂O

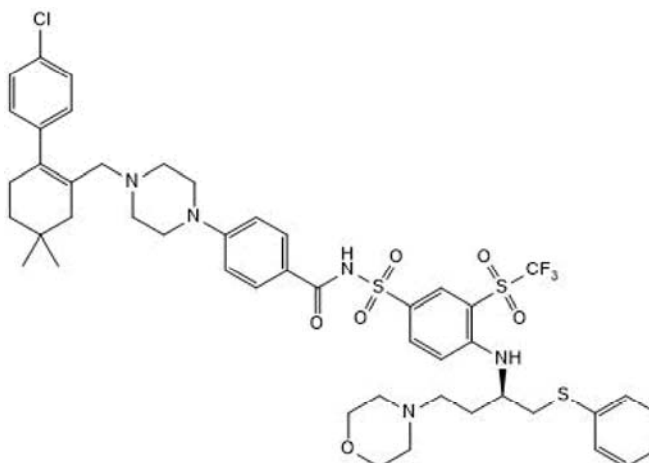
Batch Molecular Weight: 983.63

Physical Appearance: Off White solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 97.9% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Optical Rotation: [α]_D = -53.8 (Concentration = 0.3, Solvent = MeOH)

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	57.39	5.74	7.12
Found	57.07	5.68	7.11

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

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Description:

ABT 263 is a high affinity inhibitor of Bcl-2 family proteins (K_i values are 0.5 nM, <1 nM and <1 nM in Bcl-xL, Bcl-2 and Bcl-W respectively). ABT 263 induces G₁/G₀ phase arrest, apoptosis and autophagy in cancer cells in vitro (IC₅₀ = 3.4 - 12 μM). In vivo, ABT 263 displays a synergistic antitumor effect with rituximab and Bortezomib (Cat. No. 7282), Docetaxel (Cat. No. 4056) and Erlotinib (Cat. No. 7194), and inhibits growth of SCLC xenografts when combined with (+)-JQ1 (Cat. No. 4499). ABT 263 also reduces inflammation and viral-induced senescence in SARS-CoV-2 infection in vivo, and clears senescent cells and rejuvenates ag... Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

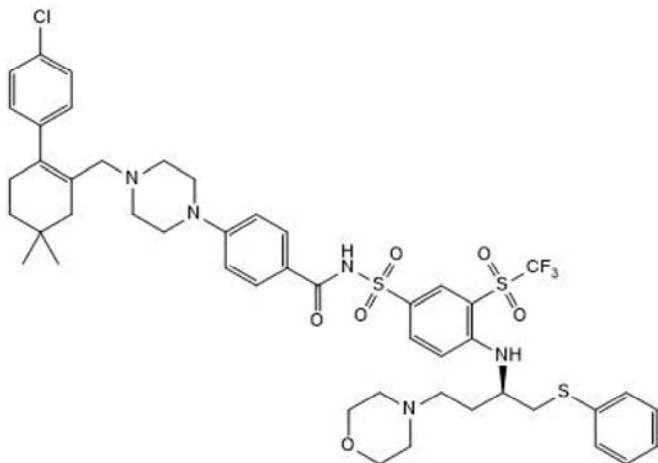
Batch Molecular Formula: C₄₇H₅₅ClF₃N₅O₆S₃.½H₂O

Batch Molecular Weight: 983.63

Physical Appearance: Off White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Lee *et al* (2021) Virus-induced senescence is a driver and therapeutic target in COVID-19. Nature **599** 283. PMID: 34517409.

Wang *et al* (2017) JQ1 synergizes with the Bcl-2 inhibitor ABT-263 against MYCN-amplified small cell lung cancer. Oncotarget **8** 86312. PMID: 29156797.

Chang *et al* (2016) Clearance of senescent cells by ABT263 rejuvenates aged hematopoietic stem cells in mice. Nat.Med. **22** 78. PMID: 26657143.

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