

Catalog # 10-3141

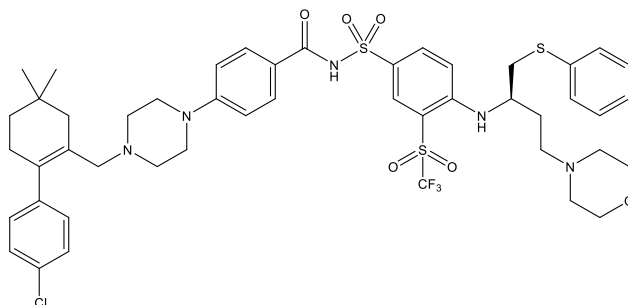
ABT-263

CAS# 923564-51-6

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

Navitoclax

Lot # X109183



Potent and selective Bcl-2 family inhibitor / BH3 domain mimetic which binds to Bcl-2, Bcl-x_L and Bcl-w (K_i<1 nM). A useful tool compound which has shown interesting results in various cancer clinical trials.² Synergizes with deoxyglucose and other agents, inducing apoptosis in cancer cells in a xenograft mouse model.³ A novel senolytic agent, inducing apoptosis preferentially in senescent cells in a cell type-restricted manner.⁴

- 1) Tse *et al.* (2008), *ABT-263: a potent and orally bioavailable Bcl-2 family inhibitor*, *Cancer Res.*, **68** 3421
- 2) Vogler *et al.* (2009), *Bcl-2 inhibitors: small molecules with a big impact on cancer therapy*; *Cell Death Differ.*, **16** 360
- 3) Yamaguchi *et al.* (2011), *Efficient elimination of cancer cells by deoxyglucose-ABT-263/737 combination therapy*; *PLoS ONE*, **6(9)** e24102
- 4) Zhu *et al.* (2016), *Identification of a novel senolytic agent, navitoclax, targeting the Bcl-2 family of anti-apoptotic factors*; *Aging Cell*, **15** 428

PHYSICAL DATA

Molecular Weight:	974.61
Molecular Formula:	C ₄₇ H ₅₅ ClF ₃ N ₅ O ₆ S ₃
Purity:	98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (up to 25 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

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