

Catalog # 10-2660

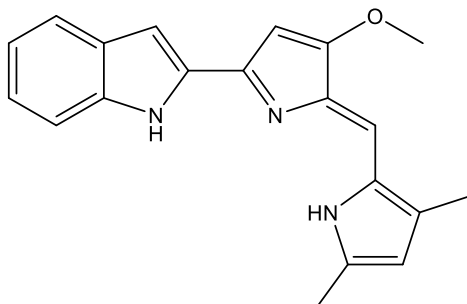
Obatoclax

803712-79-0

GX15-070

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

Lot # X105203



A novel Bcl-2 homology domain-3 (BH3) mimetic.¹ Inhibits primary acute myeloid leukemia (AML) progenitor cell proliferation (IC₅₀=0.18 μM) and induces apoptosis in primary AML cells (IC₅₀= 3.6 μM)². Synergizes with other agents such as chloroquine³ and cytarabine⁴ in cytotoxicity against a variety of cancer cells. Mediates mitochondrial stress *via* MCL-1 inhibition.⁵

- 1) Chonghaile and Letai (2008), *Mimicking the BH3 domain to kill cancer cells*; *Oncogene*, **27** S149
- 2) Konopleva *et al.* (2008), *Mechanisms of antileukemic activity of the novel Bcl-2 homology domain-3 mimetic GX15-070 (obatoclax)*; *Cancer Res.*, **68** 3413
- 3) Wang *et al.* (2014), *Combination of chloroquine and GX15-070 (obatoclax) results in synergistic cytotoxicity against pancreatic cancer cells*; *Oncol. Rep.*, **32** 2789
- 4) Xie *et al.* (2015), *Obatoclax potentiates the cytotoxic effect of cytarabine on acute myeloid leukemia cells by enhancing DNA damage*; *Mol. Oncol.*, **9** 409
- 5) Sulkshane and Teni (2017), *BH3 mimetic Obatoclax (GX15-070) mediates mitochondrial stress predominantly via MCL-1 inhibition and induces autophagy-dependent necroptosis in human oral cancer cells*; *Oncotarget*, **8** 60060

PHYSICAL DATA

Molecular Weight:	413.50
Molecular Formula:	C ₂₀ H ₁₉ N ₃ O · CH ₃ SO ₃ H
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 5 mg/ml)
Physical Description:	Purple 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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