



Catalog Number:	MC11037	Product Type:	Small Molecule
Bio-Activity:	Senolytic Bcl2 inhibitor	CAS #:	852808-04-9
Research Categories:	Cell death, neuroscience, cancer, ageing, neurodegeneration	Chemical Name:	4-[4-[(4'-Chloro[1,1'-biphenyl]-2-yl)methyl]-1-piperazinyl]-N-[[[4-[[[(1R)-3-(dimethylamino)-1-[(phenylthio)methyl]propyl]amino]-3-nitrophenyl]sulfonyl]-benzamide
Solubility:	Soluble in DMSO (up to 5 mg/ml)	Molecular Formula:	C42H45ClN6O5S2
Purity:	> 98%	Molecular Weight:	813.4
Format:	Powder	Ship Temp:	Ambient
Storage:	-20°C		

Application Notes

Description/Data:

Inhibitor of anti-apoptotic proteins from the Bcl family: Bcl-2, Bcl-X(L), and Bcl-w ($K_i < 1$ nM) that causes regression of solid tumors in mice [1]. Senolytic agent which disrupts aberrant p21 expression, inducing apoptosis in senescent cells, and enhancing liver regeneration in mice [2,3]. Acts synergistically to reduce cell viability when combined with CDK inhibitor purvalanol A in preclinical models of acute myeloid leukemia (AML) [4].

References:

- 1) T Oltersdorf et al. Nature 2005 435:677
- 2) R Yosef et al. Nat. Commun. 2016 7:11190
- 3) B Ritschka et al. Genes Dev. 2020 34:489
- 4) KM Lappin et al. Sci. Rep. 2020 10:18514

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