



# ABT-737

# Data Sheet

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<b>Catalog Number:</b>	MC11037	<b>Product Type:</b>	Small Molecule
<b>Bio-Activity:</b>	Senolytic Bcl2 inhibitor	<b>CAS #:</b>	852808-04-9
<b>Research Categories:</b>	Cell death, neuroscience, cancer, ageing, neurodegeneration	<b>Chemical Name:</b>	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
<b>Solubility:</b>	Soluble in DMSO (up to 5 mg/ml)	<b>Molecular Formula:</b>	C42H45CIN6O5S2
<b>Purity:</b>	> 98%	<b>Molecular Weight:</b>	813.4
<b>Format:</b>	Powder	<b>Ship Temp:</b>	Ambient
<b>Storage:</b>	-20°C		

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## Application Notes

### Description/Data:

Inhibitor of anti-apoptotic proteins from the Bcl family: Bcl-2, Bcl-X(L), and Bcl-w (Ki < 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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