

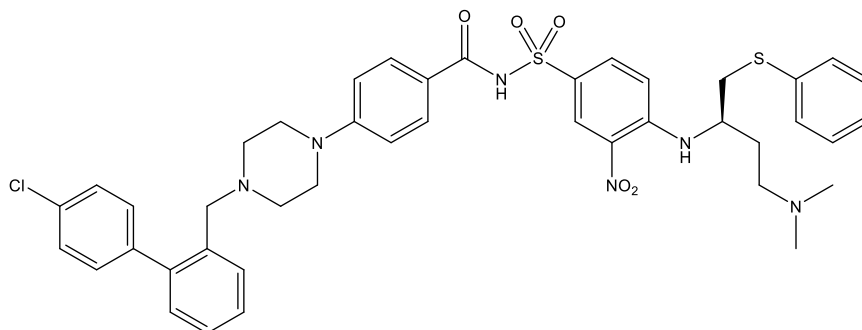
Catalog # 10-3661

ABT-737

CAS# 852808-04-9

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

Lot # X109773



ABT-737 is an 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

- 1) Oltersdorf *et al.* (2005), *An inhibitor of Bcl-2 family proteins induces regression of solid tumors*; Nature, **435** 677
- 2) Yosef *et al.* (2016), *Directed elimination of senescent cells by inhibition of BCL-W and BCL-XL*; Nat. Commun., **7** 11190
- 3) Ritschka *et al.* (2020), *The senotherapeutic drug ABT-737 disrupts aberrant p21 expression to restore liver regeneration in adult mice*; Genes Dev., **34** 489
- 4) Lappin *et al.* (2020), *A compound combination screening approach with the potential to identify new treatment options for paediatric acute myeloid leukaemia*; Sci. Rep., **10** 18514

PHYSICAL DATA

Molecular Weight:	813.43
Molecular Formula:	C ₄₂ H ₄₅ ClN ₆ O ₅ S ₂
Purity:	>98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (5 mg/mL)
Physical Description:	Yellow 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.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

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