

Revision 1

Store at -20C
#93584**ABT-737**

5 mg



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For Research Use Only. Not For Use In Diagnostic Procedures.**Background**

ABT-737 is a BH3 mimetic that is a potent inhibitor of multiple Bcl-2 family members, including Bcl-xL, Bcl-2, and Bcl-w that all have a K_i value of less than or equal to 1 nM (1,3). ABT-737 binds to these anti-apoptotic Bcl-2 family members and inhibits their interaction with pro-apoptotic BH3-domain proteins, leading to Bax-Bak mediated apoptosis. ABT-737 has cytotoxic activity in multiple cancer types, including small-cell lung cancer and lymphoid malignancies (2,3). It has also been shown to inhibit and regress tumor growth in xenograft tumor mouse models (3).

Background References

1. Kline, M.P. et al. (2007) *Leukemia* 21, 1549-60.
2. Tahir, S.K. et al. (2007) *Cancer Res* 67, 1176-83.
3. Oltsersdorf, T. et al. (2005) *Nature* 435, 677-81.

Molecular Formula
 $C_{42}H_{45}ClN_6O_5S_2$
Molecular Weight

813.4 g/mol

Purity

>98%

CAS

852808-04-9

Solubility

Soluble in DMSO at 5 mg/mL.

Storage

Store lyophilized at -20°C, desiccated. In lyophilized form, the chemical is stable for 24 months. Once in solution, store at -20°C and use within 3 months to prevent loss of potency. *Aliquot to avoid multiple freeze/thaw cycles.*

Directions for Use:

ABT-737 is supplied as a lyophilized powder. For a 10 mM stock, reconstitute 5 mg of powder in 615 μ L of DMSO. Working concentrations and length of treatment can vary depending on the desired effect.

APPLICATIONS KEY

CROSS-REACTIVITY KEY H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr:

hops: Bpk: rabbit All: all species expected

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ABT-737

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