

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).

## 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  $-20^{\circ}C$ , desiccated. In lyophilized form, the chemical is stable for 24 months. Once in solution, store at  $-20^{\circ}C$  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  $\mu$ L of DMSO. Working concentrations and length of treatment can vary depending on the desired effect.

## 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. Oltersdorf, T. et al. (2005) *Nature* 435, 677-81.

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