Product Name: ABT-737
CAS No.: 852808-04-9
Cat. No.: HY-50907
MWt: 813.43
Formula: C42H45ClN6O5S2
Purity: >98%
Solubility: DMSO ≥160mg/mL Water <1.2mg/mL Ethanol <1.2mg/mL

Mechanisms:
Pathways: Apoptosis; Target: Bcl-2 Family

Biological Activity:
ABT-737 is a BH3 mimic inhibitor of Bcl-xL, Bcl-2 and Bcl-w with EC50 of 78.7 nM, 30.3 nM and 197.8 nM, respectively; no inhibition observed against Mcl-1, Bcl-B or Bfl-1.
In vitro: ABT-737 displaces Bim from Bcl2's BH3-binding pocket, allowing Bim to activate Bax, induce mitochondrial permeabilization, and rapidly commit the primary chronic lymphocytic leukemia (CLL) cells to death. Knockdown of Mcl-1 with siRNA sensitizes two resistant SCLC cell lines H196 and DMS114 to ABT-737 by enhancing the induction of apoptosis. Likewise, up-regulation of Noxa sensitizes H196 cells to ABT-737. ABT-737 inhibits many SCLC cell lines including NCI-H889, NCI-H1963, NCI-H1417, NCI-H146 and etc. Bcl-2 and Noxa may contribute mechanistically to the cellular response to ABT-737 in NCI-H146 cells. A re...

References:
[1]. Bardwell, Philip D.; Gu, Jijie; McCarthy, Donna; Wallace, Craig; Bryant, Shaughn; The Bcl-2 Family Antagonist ABT-737 Significantly Inhibits Multiple Animal Models of Autoimmunity. Journal of Immunology, 2009, 182(12), 7482-7489

Caution: Not fully tested. For research purposes only

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