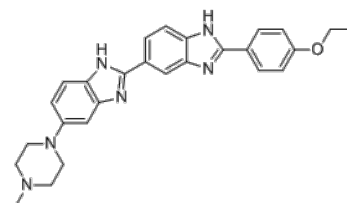


Product Name : BXI-72
Cat. No. : PC-35590
CAS No. : 23491-52-3
Molecular Formula : C₂₇H₂₉ClN₆O
Molecular Weight : 489.01
Target : Bcl-2
Solubility : 10 mM in DMSO



Biological Activity

BXI-72 (NSC334072, Hoechst 33342) is a potent, selective small molecule **Bcl-XL** inhibitor that targets the BH3 domain of Bcl-XL (K_d=0.9 nM).

BXI-72 displays very low binding affinities with Bcl2 (K_i=283 nM), Mcl-1, Bcl-w and Bfl-1/A1 (K_i>1500 nM).

BXI-72 potently suppresses lung cancer cell growth (H1299=0.49 uM, A549 IC₅₀=0.68 uM), displays relatively selective cytotoxicity against lung cancer cells compared to normal human bronchial epithelial cells.

BXI-72 causes disruption of Bcl-XL/Bak or Bcl-XL/Bax interaction, oligomerization of Bak, and cytochrome c release from mitochondria in cells.

BXI-72 exhibits more potent efficacy against human lung cancer than ABT-737 but less degree in platelet reduction in vivo.

BXI-72 (NSC334072, Hoechst 33342) is a marker dye in Hoechst series for live nuclear marker dye.

References

Park D, et al. *Cancer Res.* 2013 Sep 1;73(17):5485-96.

Barrott JJ, et al. *Mol Cancer Res.* 2017 Dec;15(12):1733-1740.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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