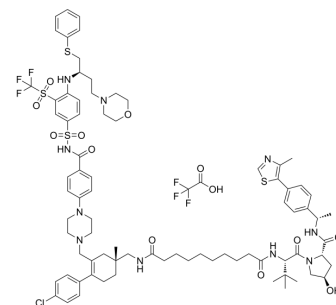


PZ703b TFA

Cat. No.:	HY-115718A
Molecular Formula:	C ₈₂ H ₁₀₃ ClF ₆ N ₁₀ O ₁₃ S ₄
Molecular Weight:	1714.46
Target:	PROTACs; Bcl-2 Family
Pathway:	PROTAC; Apoptosis
Storage:	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



BIOLOGICAL ACTIVITY

Description	PZ703b TFA is a Bcl-xl PROTAC degradation agent that induces apoptosis and inhibits cancer cell proliferation for bladder cancer research ^{[1][2]} .									
IC₅₀ & Target	Bcl-xL									
In Vitro	<p>PZ703b (0-1 µM, 24 h) TFA can synergistically inhibit bladder cancer cell proliferation with Mivebresib in a dose-dependent manner and induce apoptosis in bladder cancer cells via the mitochondrial pathway^[1].</p> <p>PZ703b (0-1 µM, 48 h) TFA inhibits MOLT-4 and RS4;11 cells with the IC₅₀ values of 15.9 and 11.3 nM respectively^[2].</p> <p>PZ703b (10 nM, 48 h) TFA induces rapid and durable BCL-XL degradation and apoptosis in MOLT-4 cells through the caspase-3 mediated pathway^[2].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Apoptosis Analysis^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>Bladder cancer cell lines 5637, SW780, and HT-1977</td> </tr> <tr> <td>Concentration:</td> <td>1 µM</td> </tr> <tr> <td>Incubation Time:</td> <td>24 hours</td> </tr> <tr> <td>Result:</td> <td>Induction of Bcl-xl degradation increased the association between Mcl-1 and Bim (a pro-apoptotic Bcl-2 protein). It was further shown that forced expression of Bcl-xl or Mcl-1 significantly reduced PZ703b-induced apoptosis. Resulted in a slight activation of Bax and Bak.</td> </tr> </table>		Cell Line:	Bladder cancer cell lines 5637, SW780, and HT-1977	Concentration:	1 µM	Incubation Time:	24 hours	Result:	Induction of Bcl-xl degradation increased the association between Mcl-1 and Bim (a pro-apoptotic Bcl-2 protein). It was further shown that forced expression of Bcl-xl or Mcl-1 significantly reduced PZ703b-induced apoptosis. Resulted in a slight activation of Bax and Bak.
Cell Line:	Bladder cancer cell lines 5637, SW780, and HT-1977									
Concentration:	1 µM									
Incubation Time:	24 hours									
Result:	Induction of Bcl-xl degradation increased the association between Mcl-1 and Bim (a pro-apoptotic Bcl-2 protein). It was further shown that forced expression of Bcl-xl or Mcl-1 significantly reduced PZ703b-induced apoptosis. Resulted in a slight activation of Bax and Bak.									

CUSTOMER VALIDATION

- Biochem Biophys Res Commun. 16 July 2022.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Yi Xu, et al. Mivebresib synergized with PZ703b, a novel Bcl-xl PROTAC degrader, induces apoptosis in bladder cancer cells via the mitochondrial pathway. *Biochem Biophys Res Commun.* 2022 Oct 1;623:120-126.
- [2]. Pratik Pal, et al. Discovery of a Novel BCL-XL PROTAC Degradar with Enhanced BCL-2 Inhibition. *J Med Chem.* 2021 Oct 14;64(19):14230-14246.
-

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA