# PZ703b hydrochloride

**Cat. No.:** HY-115718B

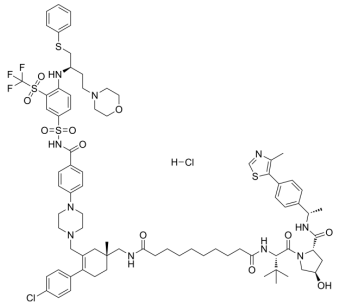
**Molecular Formula:** $C_{80}H_{103}Cl_2F_3N_{10}O_{11}S_4$

**Molecular Weight:** 1636.9

**Target:** PROTACs; Apoptosis; Bcl-2 Family

**Pathway:** PROTAC; Apoptosis

**Storage:** -20°C, sealed storage, away from moisture and light
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



## SOLVENT & SOLUBILITY

**In Vitro**

DMSO : 180 mg/mL (109.96 mM; Need ultrasonic)

| Preparing Stock Solutions | Solvent / Mass / Concentration | 1 mg | 5 mg | 10 mg |
|---|---|---|---|---|
| | 1 mM | 0.6109 mL | 3.0546 mL | 6.1091 mL |
| | 5 mM | 0.1222 mL | 0.6109 mL | 1.2218 mL |
| | 10 mM | 0.0611 mL | 0.3055 mL | 0.6109 mL |

Please refer to the solubility information to select the appropriate solvent.

**In Vivo**

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 4.5 mg/mL (2.75 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 4.5 mg/mL (2.75 mM); Clear solution

## BIOLOGICAL ACTIVITY

**Description**

PZ703b hydrochloride is a Bcl-xl PROTAC degrader that induces apoptosis and inhibits cancer cell proliferation. PZ703b hydrochloride can be used for the research of bladder cancer research[1][2].

**$IC_{50}$ & Target**

Bcl-xL

**In Vitro**

PZ703b hydrochloride (0-1 μM, 24 h) synergistically inhibits bladder cancer cell proliferation with Mivebresib with a dose-dependent manner and induces apoptosis in bladder cancer cells via the mitochondrial pathway[1].
PZ703b hydrochloride (0-1 μM, 48 h) inhibits cell viability of MOLT-4 and RS4;11 cells with $IC_{50}$ values of 15.9 and 11.3 nM, respectively[2].
PZ703b hydrochloride (10 nM, 48 h) induces rapid and durable BCL-XL degradation and apoptosis in MOLT-4 cells through the caspase-3 mediated pathway[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Apoptosis Analysis[1]

| | |
|---|---|
| Cell Line: | MOLT-4 cell line |
| Concentration: | 10 μM |
| Incubation Time: | 48 hours |
| Result: | Induced cell apoptosis of MOLT-4 cells. |

## 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 Degrader with Enhanced BCL-2 Inhibition. J Med Chem. 2021 Oct 14;64(19):14230-14246.



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