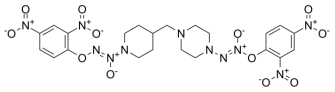
Bcl-2-IN-10

Cat. No.:	HY-150540
CAS No.:	2773354-28-0
Molecular Formula:	$C_{22}H_{25}N_{11}O_{12}$
Molecular Weight:	635.5
Target:	Bcl-2 Family; Apoptosis
Pathway:	Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Bcl-2-IN-10 is an active Bcl-2 inhibitor that can release up to four nitric oxide (NO) molecules. Bcl-2-IN-10 has cytotoxic activities against cancer cells, such as human leukemia, breast cancer and lung cancer. Bcl-2-IN-10 induces cell apopotosis and arrest cell cycle of G2/M phase, and can be used in cancer-related research[1].

IC_{50} & Target

Bax

In Vitro

Steroid sulfatase-IN-2 (compound 1, 0-20 μM approximately, 72 h) inhibits different cancer cells with IC_{50}s ranging from 1.26 μM to 17.86 μM[1].

Steroid sulfatase-IN-2 (1 μM, 5 h) releases up to four molecules of nitric oxide[1].

Steroid sulfatase-IN-2 (8 μM, 8-72 h) induces leukemia cell CCRF-CEM apoptosis via MAPKs pathways, arrests cell in the G2/M phase, and increases ratio of Bax/Bcl-2[1].

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

Apoptosis Analysis[1]

Cell Line:	CEM cells
Concentration:	8 μM
Incubation Time:	8, 24, 48 or 72 h
Result:	Induced apoptosis in a time-dependent and dose-dependent manner.

Cell Cycle Analysis[1]

Cell Line:	CEM cells
Concentration:	8 μM
Incubation Time:	8, 24, 48 or 72 h
Result:	Arrested cell in the G2/M phase.

Western Blot Analysis[1]

Cell Line:	CEM cells

Concentration:	0-8 μM
Incubation Time:	72 h
Result:	Increased the levels of JNK and p38, and the levels of phosphorylated JNK and p38. Decreased Bcl-2 level in a time- and dose-dependent manner, and increased pro-apoptotic Bax level.

REFERENCES

[1]. Xun Ji, et al. Double-component diazeniumdiolate derivatives as anti-cancer agents. Bioorg Med Chem. 2020 Apr 15;28(8):115405.

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