Apoptotic agent-2

Cat. No.: HY-147928

CAS No.: 2482310-18-7 Molecular Formula: $C_{25}H_{16}CIN_7S$

Molecular Weight: 481.96

Target: Apoptosis; Caspase; Bcl-2 Family

Pathway: **Apoptosis**

Storage: Please store the product under the recommended conditions in the Certificate of

Product Data Sheet

BIOLOGICAL ACTIVITY

Description Apoptotic agent-2 (compound 14b) induces apoptosis by down-regulation of Bcl-2 and up-regulation of Bax and caspase-3.

Apoptotic agent-2 exhibits anti-proliferative activities and can be used for cancer research^[1].

IC₅₀ & Target Bax Caspase 3 Bcl-2

In Vitro

Apoptotic agent-2 (compound 14b) (24 hours) has selective anti-proliferative activities against HCT-116, HepG-2, MCF-7 and WI-38 (normal human cells) cells with IC₅₀ values of 1.96, 1.12, 2.38 and 107.5 μ M, respectively^[1].

Apoptotic agent-2 (compound 14b) (1.12 μ M; 24 hours; HepG-2 cells) induces cell apoptosis, which increases the levels of active Caspase-3 and BAX by 10.92 folds and 9.7 folds, respectively, and decreases the level of Bcl-2 by 3.3 folds^[1].

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

Cell Cycle Analysis^[1]

Cell Line:	HepG-2 cells
Concentration:	1.12 μΜ
Incubation Time:	24 hours
Result:	The percentage of cells in the G2-M phase increased while the percentage of cells in G0-G1 phase and S phase decreased.
Apoptosis Analysis ^[1]	

Cell Line:	HepG-2 cells
Concentration:	1.12 μΜ
Incubation Time:	24 hours
Result:	Increased the early apoptosis ratio from 0.69% to 5.17% and increased the late apoptosis ratio from 0.32% to 12.11%.

REFERENCES

1]. Fayed EA, et al. In vitro cyto Bioorg Chem. 2020 Jul;100:103		enoquinoxaline hybrids as apopt	otic agents, design, synthesis, physicocl	hemical and pharmacokinetic studies.
			edical applications. For research us	
	Tel: 609-228-6898 Address: 1	Fax: 609-228-5909 Deer Park Dr, Suite Q, Monmo	E-mail: tech@MedChemExpresouth Junction, NJ 08852, USA	ss.com
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