## **Product** Data Sheet

## **Apoptotic agent-3**

Cat. No.: HY-147929 CAS No.: 2482310-23-4 Molecular Formula: C<sub>31</sub>H<sub>21</sub>N<sub>5</sub>OS

Molecular Weight: 511.6

Target: Apoptosis; Caspase; Bcl-2 Family

Pathway: **Apoptosis** 

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

## **BIOLOGICAL ACTIVITY**

Description Apoptotic agent-3 (compound 15f) promotes apoptosis through the potential mitochondria-mediated Bcl-2/Bax pathway

and activation of the Caspase 3 pathway. Apoptotic agent-3 exhibits anti-proliferative activities and can be used for cancer

research<sup>[1]</sup>.

IC<sub>50</sub> & Target Caspase 3 Bcl-2 Вах

In Vitro

Apoptotic agent-3 (compound 15f) (24 hours) has selective anti-proliferative activities against HCT-116, HepG-2 MCF-7 and WI-38 cells (normal human cells) with IC<sub>50</sub> values of 1.62, 1.46, 2.04 and 117.9  $\mu$ M, respectively<sup>[1]</sup>.

.Apoptotic agent-3 (compound 15f) (24 hours) (1.46 µM; 24 hours; HepG-2 cells) induces cell apoptosis, which increases the levels of active Caspase-3 and BAX by 11.53 folds and 10 folds, respectively, and decreases the level of Bcl-2 by 3.8 folds [1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Cycle Analysis<sup>[1]</sup>

Cell Line:	HepG-2 cells
Concentration:	1.46 μΜ
Incubation Time:	24 hours
Result:	The percentage of cells in the G2-M phase increased while the percentage of cells in G1 phase and S phase decreased.

## Apoptosis Analysis<sup>[1]</sup>

Cell Line:	HepG-2 cells
Concentration:	1.46 μΜ
Incubation Time:	24 hours
Result:	Increased the early apoptosis ratio from 0.69% to 8.25% and increased the late apoptosis ratio from 0.32% to 13.05%.

[1]. Fayed EA, et al. In vitro cytotoxic activity of thiazole-indenoquinoxaline hybrids as apoptotic agents, design, synthesis, physicochemical and pharmacokinetic studie Bioorg Chem. 2020 Jul;100:103951.		
	Caution: Product has not been fully validated for medical applications. For research use only.	
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