Product Data Sheet

6-Formylpterin

Cat. No.: HY-113978

CAS No.: 712-30-1

Molecular Formula: $C_7H_5N_5O_2$ Molecular Weight: 191.15

Target:Reactive Oxygen Species; Xanthine Oxidase; Xanthine Oxidase; ApoptosisPathway:Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κΒ; Apoptosis

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

Analysis.

BIOLOGICAL ACTIVITY

Description

6-Formylpterin is an inhibitor of Xanthine Oxidase. 6-Formylpterin induces intracellular ROS generation and apoptosis in HL60 cells. 6-Formylpterin suppresses cell proliferation in PanC-1 cells^[1].

In Vitro 6-Formylpterin (2 mM) generats intracellular ROS in HL-60 cells^[1].

6-Formylpterin (0.5, 1, and 2 mM, 3 h) increases intracellular H_2O_2 , which induces apoptosis in HL-60 cells and Jurkat cells $^{[1]}$

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

Apoptosis Analysis^[1]

Cell Line:	HL-60 cells, Jurkat cells
Concentration:	0.5, 1, and 2 mM
Incubation Time:	3 h
Result:	Induced apoptosis in HL-60 cells $^{[1]}$. Inhibited Fas-mediated apoptosis in Jurkat cells in 0.5 mM $^{[1]}$.

REFERENCES

[1]. Arai T, et al. 6-formylpterin, a xanthine oxidase inhibitor, intracellularly generates reactive oxygen species involved in apoptosis and cell proliferation. Free Radic Biol Med. 2001 Feb 1;30(3):248-59.

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

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