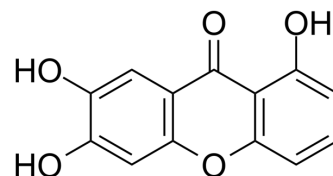


## 1,6,7-Trihydroxyxanthone

Cat. No.:	HY-N0992
CAS No.:	25577-04-2
Molecular Formula:	C <sub>13</sub> H <sub>8</sub> O <sub>5</sub>
Molecular Weight:	244.2
Target:	Apoptosis; BMI1
Pathway:	Apoptosis; Stem Cell/Wnt
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	1,6,7-Trihydroxyxanthone is a potent anticancer agent. 1,6,7-Trihydroxyxanthone inhibits cell proliferation and induces cell Apoptosis. 1,6,7-Trihydroxyxanthone decreases Bmi-1 expression and increases the protein levels expression of P14, P16 <sup>[1]</sup> .																						
<b>In Vitro</b>	<p>1,6,7-Trihydroxyxanthone (0-10 µg/mL; 0-72 h) inhibits cell proliferation in HepG2, Bel7404 cells<sup>[1]</sup>.</p> <p>1,6,7-Trihydroxyxanthone (5 µg/mL; 72 h) induces cell apoptosis in HepG2 cells<sup>[1]</sup>.</p> <p>1,6,7-Trihydroxyxanthone decreases Bmi-1 expression and increases the protein levels expression of P14, P16<sup>[1]</sup>.</p> <p>1,6,7-Trihydroxyxanthone induces MiR-218 up-regulation in HepG2, Bel7404 cells<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Proliferation Assay<sup>[1]</sup></p> <table border="1"> <tr> <td>Cell Line:</td> <td>HepG2, Bel7404 cells</td> </tr> <tr> <td>Concentration:</td> <td>0, 1.25, 2.5, 5, 10 µg/mL</td> </tr> <tr> <td>Incubation Time:</td> <td>0, 24, 48, 72 h</td> </tr> <tr> <td>Result:</td> <td>Inhibited cell proliferation of HepG2 and Bel7404 in a time- and dose-dependent manner.</td> </tr> </table> <p>Apoptosis Analysis<sup>[1]</sup></p> <table border="1"> <tr> <td>Cell Line:</td> <td>HepG2 cells</td> </tr> <tr> <td>Concentration:</td> <td>5 µg/ml</td> </tr> <tr> <td>Incubation Time:</td> <td>72 h</td> </tr> <tr> <td>Result:</td> <td>Induced cell apoptosis.</td> </tr> </table> <p>Western Blot Analysis<sup>[1]</sup></p> <table border="1"> <tr> <td>Cell Line:</td> <td>HepG2, Bel7404 cells</td> </tr> <tr> <td>Concentration:</td> <td></td> </tr> <tr> <td>Incubation Time:</td> <td></td> </tr> </table>	Cell Line:	HepG2, Bel7404 cells	Concentration:	0, 1.25, 2.5, 5, 10 µg/mL	Incubation Time:	0, 24, 48, 72 h	Result:	Inhibited cell proliferation of HepG2 and Bel7404 in a time- and dose-dependent manner.	Cell Line:	HepG2 cells	Concentration:	5 µg/ml	Incubation Time:	72 h	Result:	Induced cell apoptosis.	Cell Line:	HepG2, Bel7404 cells	Concentration:		Incubation Time:	
Cell Line:	HepG2, Bel7404 cells																						
Concentration:	0, 1.25, 2.5, 5, 10 µg/mL																						
Incubation Time:	0, 24, 48, 72 h																						
Result:	Inhibited cell proliferation of HepG2 and Bel7404 in a time- and dose-dependent manner.																						
Cell Line:	HepG2 cells																						
Concentration:	5 µg/ml																						
Incubation Time:	72 h																						
Result:	Induced cell apoptosis.																						
Cell Line:	HepG2, Bel7404 cells																						
Concentration:																							
Incubation Time:																							

---

Result:	Suppressed Bmi-1 expressio and increased the expression of P14, P16 protein levels.
---------	-------------------------------------------------------------------------------------

## REFERENCES

---

[1]. Fu WM, et al. MiR-218-targeting-Bmi-1 mediates the suppressive effect of 1,6,7-trihydroxyxanthone on liver cancer cells. Apoptosis. 2015 Jan;20(1):75-82.

---

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA