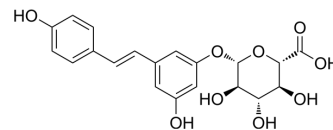


trans-Resveratrol-3-O-β-D-Glucuronide

Cat. No.:	HY-137912
CAS No.:	387372-17-0
Molecular Formula:	C ₂₀ H ₂₀ O ₉
Molecular Weight:	404.37
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	trans-Resveratrol-3-O-β-D-Glucuronide is an active metabolite of trans-resveratrol. trans-Resveratrol-3-O-β-D-Glucuronide reduces the proliferation of several intestinal cancer cell line. trans-Resveratrol-3-O-β-D-Glucuronide increases pyruvate production in livers ^{[1][2][3]} .																
In Vitro	<p>trans-Resveratrol-3-O-β-D-Glucuronide (48 h) inhibits cell growth with the IC₅₀ value of 15.8 μM, 16.5 μM and 10.1 μM against CCL-228, Caco-2 and HCT-116 cells, respectively^[2].</p> <p>trans-Resveratrol-3-O-β-D-Glucuronide (30 μM, 48 h) induces S phase arrest in CCL-228, Caco-2 and HCT-116 cells^[2].</p> <p>trans-Resveratrol-3-O-β-D-Glucuronide (200 μM, 10 mins) increases pyruvate production in livers isolated from rats in a model of arthritis induced by complete Freund's adjuvant^[3].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Viability Assay^[2]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>CCL-228, Caco-2 and HCT-116</td> </tr> <tr> <td>Concentration:</td> <td>0 to 100 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>48 h</td> </tr> <tr> <td>Result:</td> <td>Inhibited cell growth with the IC₅₀ value of 15.8 μM, 16.5 μM and 10.1 μM against CCL-228, Caco-2 and HCT-116 cells, respectively.</td> </tr> </table> <p>Cell Cycle Analysis^[2]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>CCL-228, Caco-2 and HCT-116</td> </tr> <tr> <td>Concentration:</td> <td>30 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>48 h</td> </tr> <tr> <td>Result:</td> <td>Induced S phase arrest.</td> </tr> </table>	Cell Line:	CCL-228, Caco-2 and HCT-116	Concentration:	0 to 100 μM	Incubation Time:	48 h	Result:	Inhibited cell growth with the IC ₅₀ value of 15.8 μM, 16.5 μM and 10.1 μM against CCL-228, Caco-2 and HCT-116 cells, respectively.	Cell Line:	CCL-228, Caco-2 and HCT-116	Concentration:	30 μM	Incubation Time:	48 h	Result:	Induced S phase arrest.
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REFERENCES

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- [1]. Rousova J, et al. Determination of trans-resveratrol and its metabolites in rat serum using liquid chromatography with high-resolution time of flight mass spectrometry. *J Chromatogr B Analyt Technol Biomed Life Sci.* 2016;1039:35-43.
- [2]. Polycarpou E, et al. Resveratrol 3-O-D-glucuronide and resveratrol 4'-O-D-glucuronide inhibit colon cancer cell growth: evidence for a role of A3 adenosine receptors, cyclin D1 depletion, and G1 cell cycle arrest. *Mol Nutr Food Res.* 2013;57(10):1708-1717.
- [3]. Simões MS, et al. Resveratrol biotransformation and actions on the liver metabolism of healthy and arthritic rats. *Life Sci.* 2022;310:120991.
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Caution: Product has not been fully validated for medical applications. For research use only.

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