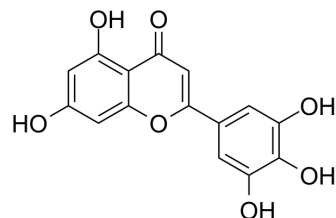


Tricetin

Cat. No.:	HY-131592
CAS No.:	520-31-0
Molecular Formula:	C ₁₅ H ₁₀ O ₇
Molecular Weight:	302.24
Target:	Apoptosis; Keap1-Nrf2
Pathway:	Apoptosis; NF-κB
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Tricetin is a potent competitive inhibitor of the Keap1-Nrf2 Protein Protein Interaction (PPI). Tricetin protects against 6-OHDA-induced neurotoxicity in Parkinson's disease model by activating Nrf2/HO-1 signaling pathway and preventing mitochondria-dependent apoptosis pathway ^[1] .																
In Vitro	<p>Tricetin is mainly found in natural plants such as Ginkgo biloba L., Carica papaya L. and Murraya exotica L. Tricetin activates the Nrf2/HO-1 pathway to protect cells from oxidative stress. Tricetin possessed the protective effect on dopamine neurons of <i>C. elegans</i>. Tricetin has cytostatic properties and anti-metastatic activity of various solid tumors^[1].</p> <p>Pretreatment with Tricetin (20, 40, and 80 μM; for 4 hours) significantly improves 6-OHDA (200 μM)-induced SH-SY5Y cells viability and suppresses mitochondria-mediated apoptosis^[1].</p> <p>Tricetin (80 μM; for 1, 2 and 4 h) markedly decreased the expressions of p-JNK and p-p38^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Viability Assay</p> <table border="1"> <tr> <td>Cell Line:</td> <td>SH-SY5Y cells</td> </tr> <tr> <td>Concentration:</td> <td>20, 40, and 80 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>Pretreatment for 4 h followed by 6-OHDA (200 μM) for 24 h</td> </tr> <tr> <td>Result:</td> <td>Significantly increased 6-OHDA-induced SH-SY5Y cells viability.</td> </tr> </table> <p>Western Blot Analysis</p> <table border="1"> <tr> <td>Cell Line:</td> <td>SH-SY5Y cells</td> </tr> <tr> <td>Concentration:</td> <td>80 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>1, 2 and 4 h</td> </tr> <tr> <td>Result:</td> <td>Markedly decreased the expressions of p-JNK and p-p38.</td> </tr> </table>	Cell Line:	SH-SY5Y cells	Concentration:	20, 40, and 80 μM	Incubation Time:	Pretreatment for 4 h followed by 6-OHDA (200 μM) for 24 h	Result:	Significantly increased 6-OHDA-induced SH-SY5Y cells viability.	Cell Line:	SH-SY5Y cells	Concentration:	80 μM	Incubation Time:	1, 2 and 4 h	Result:	Markedly decreased the expressions of p-JNK and p-p38.
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REFERENCES

[1]. Ren J, et al. Tricetin protects against 6-OHDA-induced neurotoxicity in Parkinson's disease model by activating Nrf2/HO-1 signaling pathway and preventing mitochondria-dependent apoptosis pathway. *Toxicol Appl Pharmacol.* 2019;378:114617.

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

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