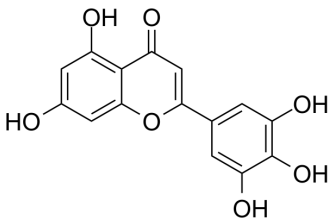
Tricetin

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:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



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

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 C. elegans. Tricetin has cytostatic properties and anti-metastatic activity of various solid tumors[1].

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].

Tricetin (80 μM; for 1, 2 and 4 h) markedly decreased the expressions of p-JNK and p-p38[1].

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

Cell Viability Assay

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.

Western Blot Analysis

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.

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.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA