
Product Data Sheet

Product Name: Tricetin
Cat. No.: GC64862

Chemical Properties

Cas. No. 520-31-0

Formula C₁₅H₁₀O₇ M.Wt 302.24

Solubility DMSO:90mg/ml Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

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].

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].

[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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