

Product Data Sheet

Product Name: Nepetin
Cat. No.: GC38568

Chemical Properties

Cas. No. 520-11-6

SMILES O=C1C=C(C2=CC=C(O)C(O)=C2)OC3=CC(O)=C(OC)C(O)=C13

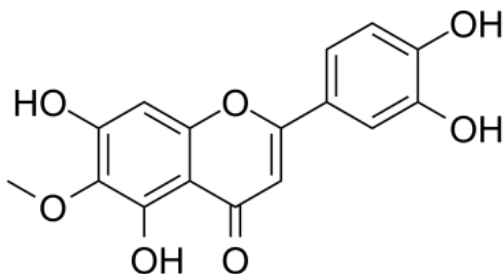
Formula $C_{16}H_{12}O_7$ M.Wt 316.26

Solubility DMSO : 125 mg/mL (395.24 mM; ultrasonic and warming and heat to 60°C) Storage 4°C, away from moisture and light

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

Nepetin (6-Methoxyluteolin) is a natural flavonoid isolated from *Eupatorium ballotaefolium* HBK with potent anti-inflammatory activities. Nepetin inhibits IL-6, IL-8 and MCP-1 secretion with IC₅₀ values of 4.43 μM, 3.42 μM and 4.17 μM, respectively in ARPE-19 cells[1][2].

Pretreatment with Nepetin dose-dependently inhibited IL-6, IL-8 and MCP-1 secretion with IC₅₀

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

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values of 4.43, 3.42 and 4.17 μ M, respectively[1].Nepetin (2.5-10 μ M; 25 hours; ARPE-19 cells) treatment suppresses IL-1 β -induced cytokine (IL-6, IL-8 and MCP-1) expression at mRNA level in ARPE-19 cells[1].Nepetin (2.5-10 μ M; 1.5 hours; ARPE-19 cells) treatment dose-dependently inhibits phosphorylation of IKK α / β and I κ B α , and nuclear translocation of p65. Nepetin decreases the level of phosphorylated ERK1/2, JNK and p38 MAPK in activated ARPE-19 cells[1]. RT-PCR[1] Cell Line: ARPE-19 cells

[1]. Chen X, et al. Nepetin inhibits IL-1 β induced inflammation via NF- κ B and MAPKs signaling pathways in ARPE-19 cells. Biomed Pharmacother. 2018 May;101:87-93. [2]. Militão GC, et al. Cytotoxic activity of nepetin, a flavonoid from Eupatorium ballotaefolium HBK. Pharmazie. 2004 Dec;59(12):965-6.

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