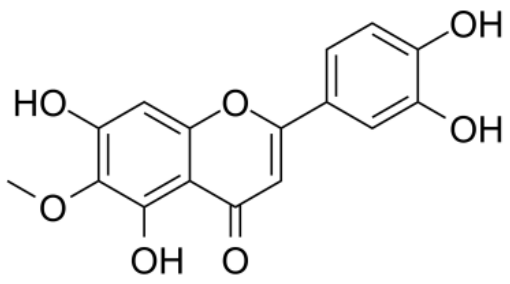
Product Data Sheet

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

values of 4.43, 3.42 and 4.17 μM, respectively[1].Nepetin (2.5-10 μM; 25 hours; ARPE-19 cells) treatment suppresses IL-1β-induced cytokine (IL-6, IL-8 and MCP-1) expression at mRNA level in ARPE-19 cells[1].Nepetin (2.5-10 μM; 1.5 hours; ARPE-19 cells) treatment dose-dependently inhibits phosphorylation of IKKα/β and IκBα, 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-1β induced inflammation via NF-κB 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.