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SZABO-SCANDIC Handels GmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

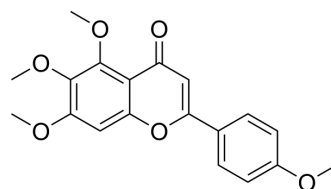
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Scutellarein tetramethyl ether

Cat. No.:	HY-N4314
CAS No.:	1168-42-9
Molecular Formula:	C ₁₉ H ₁₈ O ₆
Molecular Weight:	342.34
Target:	Bacterial; COX; NO Synthase; NF-κB
Pathway:	Anti-infection; Immunology/Inflammation; NF-κB
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 83.33 mg/mL (243.41 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent Concentration Mass	1 mg	5 mg	10 mg
		1 mM	2.9211 mL	14.6054 mL	29.2107 mL
		5 mM	0.5842 mL	2.9211 mL	5.8421 mL
		10 mM	0.2921 mL	1.4605 mL	2.9211 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (6.08 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (6.08 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil				
	Solubility: ≥ 2.08 mg/mL (6.08 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Scutellarein tetramethyl ether (4',5,6,7-Tetramethoxyflavone) is a bioactive compound extracted from Eupatorium odoratum. Scutellarein tetramethyl ether exhibits anti-inflammatory, antibacterial, pro-coagulant, and anti-tumor activities. Scutellarein tetramethyl ether exerts its anti-inflammatory effects by modulating the NF-κB pathway and regulates bacterial resistance through the inhibition of efflux pumps. Additionally, Scutellarein tetramethyl ether accelerates coagulation time via the endogenous coagulation pathway. Studies have shown that Scutellarein tetramethyl ether can effectively inhibit the growth of the liver cancer cell line HepG2 (IC ₅₀ = 20.08 μg/mL) ^{[1][2][3][4]} .
In Vitro	Scutellarein tetramethyl ether (50 and 100 μM; 1 h) inhibits the expression of COX-2 and iNOS in RAW 264.7 cells induced by LPS (HY-D1056) ^[1] .

Scutellarein tetramethyl ether (10-100 μ M; 1 h) reduces the activity of NF- κ B promoter in transiently transfected RAW 264.7 cells in a dose-dependent manner^[1].

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

Western Blot Analysis^[1]

Cell Line:	Transient transfection of RAW 264.7 cells
Concentration:	10, 50 and 100 μ M
Incubation Time:	1 h
Result:	Suppressed both phospho-IKK α / β and phospho-I κ B α expression at concentrations of 50 and 100 μ M.

CUSTOMER VALIDATION

- Nat Commun. 2023 Jun 10;14(1):3445.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Xianfeng Zhang, et al. "Dissecting the antitumor effects of Scutellaria barbata: Initial insights into the metabolism of scutellarin and luteolin by gut microbiota." Journal of Pharmaceutical and Biomedical Analysis 248 (2024): 116325.
- [2]. Pandith H, et al. Effect of Siam weed extract and its bioactive component scutellarein tetramethyl ether on anti-inflammatory activity through NF- κ B pathway. J Ethnopharmacol. 2013 May 20;147(2):434-41.
- [3]. Maia GL, et al. Flavonoids from Praxelis clematidea R.M. King and Robinson modulate bacterial drug resistance. Molecules. 2011 Jun 10;16(6):4828-35.
- [4]. Triratana T, et al. Effect of Eupatorium odoratum on blood coagulation. J Med Assoc Thai. 1991 May;74(5):283-7.

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

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