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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

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

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

mail@szabo-scandic.com

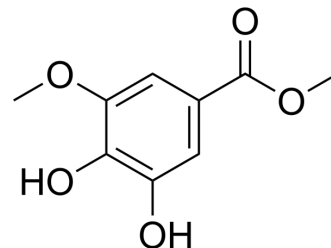
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Methyl 3-O-methylgallate

Cat. No.:	HY-N6669
CAS No.:	3934-86-9
Molecular Formula:	C ₉ H ₁₀ O ₅
Molecular Weight:	198.17
Target:	Others
Pathway:	Others
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (504.62 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		5.0462 mL	25.2309 mL	50.4617 mL
		5 mM		1.0092 mL	5.0462 mL	10.0923 mL
		10 mM		0.5046 mL	2.5231 mL	5.0462 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: ≥ 2.5 mg/mL (12.62 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (12.62 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (12.62 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Methyl 3-O-methylgallate (M3OMG) possesses antioxidant effect and can protect neuronal cells from oxidative damage ^[1] .
In Vivo	Methyl 3-O-methylgallate (M3OMG; 10 and 20 mg/kg, i.p.,) treatment mitigated the NaF-induced oxidative stress through normalization of the level of TBARS, reduced levels of glutathione and by the restoration of the diminished antioxidant enzyme activities^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Fifty male Wistar rats (8-12 , 7-days old, 200-250 g) ^[1] .
Dosage:	10 and 20 mg/kg.
Administration:	I.P. for 1 week.
Result:	Mitigated the NaF-induced oxidative stress through normalization of the level of TBARS, reduced levels of glutathione and by the restoration of the diminished antioxidant enzyme activities.

CUSTOMER VALIDATION

- Nat Commun. 2023 Aug 21;14(1):5075.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Nabavi SF, et al. Neuroprotective effects of methyl-3-O-methyl gallate against sodium fluoride-induced oxidative stress in the brain of rats. Cell Mol Neurobiol. 2013 Mar;33(2):261-7.

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