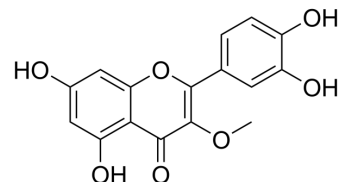


3-O-Methylquercetin

Cat. No.:	HY-N1860		
CAS No.:	1486-70-0		
Molecular Formula:	C ₁₆ H ₁₂ O ₇		
Molecular Weight:	316.26		
Target:	Phosphodiesterase (PDE)		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (158.10 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.1620 mL	15.8098 mL	31.6196 mL
	5 mM	0.6324 mL	3.1620 mL	6.3239 mL
	10 mM	0.3162 mL	1.5810 mL	3.1620 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: 0.62 mg/mL (1.96 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: 0.62 mg/mL (1.96 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: 0.62 mg/mL (1.96 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

3-O-Methylquercetin (3-MQ) is a major component from the plant *Rhamnus nakaharai* and has antiviral activity and potential antiasthmatic efficacy. 3-O-Methylquercetin inhibits total cAMP and cGMP-phosphodiesterase (PDE). The IC₅₀ values of 3-O-Methylquercetin (3-MQ) against PDE1-PDE5 are in the range of 1.6-86.9 μM. 3-O-Methylquercetin is a non-competitive inhibitor of PDE2 and a competitive inhibitor of PDE4^[1].

REFERENCES

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