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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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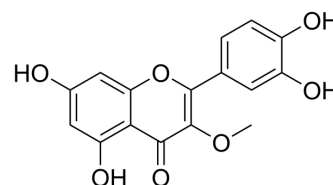
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3-O-Methylquercetin

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)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		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	1. 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					
	2. 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					
	3. 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), a main constituent of Rhamnus nakaharai, inhibits total cAMP and cGMP-phosphodiesterase (PDE) of guinea pig trachealis. 3-O-Methylquercetin (3-MQ) exhibits IC ₅₀ values ranging from 1.6-86.9 μM for PDE isozymes (PDE1-5) ^[1] .
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REFERENCES

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

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