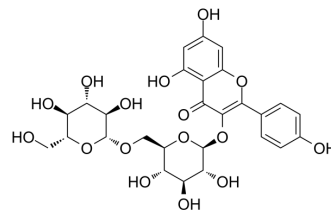


Kaempferol 3-O-gentiobioside

Cat. No.:	HY-N1510
CAS No.:	22149-35-5
Molecular Formula:	C ₂₇ H ₃₀ O ₁₆
Molecular Weight:	610.52
Target:	Glucosidase
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (81.90 mM; Need ultrasonic)																													
	Preparing Stock Solutions	<table border="1"> <thead> <tr> <th>Solvent</th> <th>Mass</th> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td>Concentration</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1 mM</td> <td></td> <td>1.6379 mL</td> <td>8.1897 mL</td> <td>16.3795 mL</td> </tr> <tr> <td>5 mM</td> <td></td> <td>0.3276 mL</td> <td>1.6379 mL</td> <td>3.2759 mL</td> </tr> <tr> <td>10 mM</td> <td></td> <td>0.1638 mL</td> <td>0.8190 mL</td> <td>1.6379 mL</td> </tr> </tbody> </table>	Solvent	Mass	1 mg	5 mg	10 mg	Concentration					1 mM		1.6379 mL	8.1897 mL	16.3795 mL	5 mM		0.3276 mL	1.6379 mL	3.2759 mL	10 mM		0.1638 mL	0.8190 mL	1.6379 mL			
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Please refer to the solubility information to select the appropriate solvent.																														
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (4.09 mM); Clear solution																													

BIOLOGICAL ACTIVITY

Description	Kaempferol 3-O-gentiobioside is a flavonoid isolated from <i>C. alata</i> leaves with antidiabetic activity. Kaempferol 3-O-gentiobioside possesses activity against α-glucosidase and displays carbohydrate enzyme inhibitory effect with an IC ₅₀ of 50.0 μM ^[1] .
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REFERENCES

[1]. Varghese GK, et al. Antidiabetic components of *Cassia alata* leaves: identification through α-glucosidase inhibition studies. *Pharm Biol.* 2013 Mar;51(3):345-9.

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

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