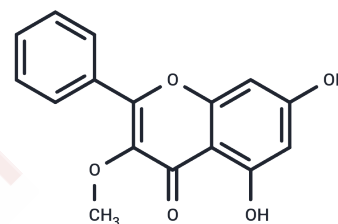


## 3-O-Methylgalangin

## Chemical Properties

CAS No. :	6665-74-3
Formula:	C <sub>16</sub> H <sub>12</sub> O <sub>5</sub>
Molecular Weight:	284.26
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	3-O-Methylgalangin (GALANGIN-3-METHYLETHER) has antibacterial activity, it has inhibitory effects on <i>Pseudomonas aeruginosa</i> . GALANGIN-3-METHYLETHER has hypolipidemic activity, the action is due to the inhibition of pancreatic lipase.
Targets(IC50)	Antibacterial
In vitro	GALANGIN-3-METHYLETHER markedly reduced the viability of <i>Leishmania amastigotes</i> .
Cell Research	<i>L. amazonensis</i> amastigotes were maintained and cultured axenically. Washed parasites were resuspended in RPMI-1640 medium supplemented with 4% fetal calf serum, pH 5.0, and incubated at 33 C for 18 h with crude extracts (1 mg/mL) or isolated compounds (GALANGIN-3-METHYLETHER) (0.014, 0.084, 0.5, and 1.0 mg/mL) dissolved in dimethyl sulfoxide (DMSO)/RPMI-1640 (1:99). The amastigote viability was assessed colorimetrically by the reduction of a tetrazolium salt (MTT) as. Absorbances were expressed as percentages relative to untreated controls. Amphotericin B (0.02 mg/mL) was used as the positive control and DMSO/RPMI-1640 (1:99) as negative control. The bioassays were carried out in triplicate.

## Solubility Information

Solubility	DMSO: 25 mg/mL (87.95 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 1 mg/mL (3.52 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	3.5179 mL	17.5895 mL	35.1791 mL
5 mM	0.7036 mL	3.5179 mL	7.0358 mL
10 mM	0.3518 mL	1.759 mL	3.5179 mL
50 mM	0.0704 mL	0.3518 mL	0.7036 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Salvador, Marcos José, Sartori F T , Sacilotto A C B C , et al. Bioactivity of Flavonoids Isolated from *Lychnophora markgravii* against *Leishmania amazonensis* Amastigotes[J]. Zeitschrift für Naturforschung C, 2009, 64(7-8).

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