

## Pachypodol

## Chemical Properties

CAS No.:	33708-72-4
Formula:	C <sub>18</sub> H <sub>16</sub> O <sub>7</sub>
Molecular Weight:	344.3
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

## Biological Description

Description	Pachypodol has antibacterial and antifungal activities against <i>Bacillus subtilis</i> , <i>Staphylococcus aureus</i> , <i>Staphylococcus faecalis</i> , <i>Escherichia coli</i> , <i>Pseudomonas aeruginosa</i> , <i>Candida albicans</i> , <i>Candida krusei</i> and <i>Candida glabrata</i> .
Targets(IC <sub>50</sub> )	Antifection: None
In vitro	Pachypodol (5,4'-dihydroxy-3,7,3'-trimethoxyflavone) has been isolated from the leaves of <i>C. floribunda</i> by repeated column chromatography on silica gel, and the structure confirmed by spectroscopic means. While the general toxicity of Pachypodol was determined by the brine shrimp lethality assay, the cytotoxic potential of this flavonoid has been evaluated by the Promega's CellTiter 96 Non-Radioactive Cell Proliferation Assay using the CaCo-2 colon cancer cell line (IC <sub>50</sub> ) = 185.6 microM). A summary of the biological activities of Pachypodol reported to date is also presented[1]

## Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.904 mL	14.522 mL	29.044 mL
5 mM	0.581 mL	2.904 mL	5.809 mL
10 mM	0.29 mL	1.452 mL	2.904 mL
50 mM	0.058 mL	0.29 mL	0.581 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

1. Pachypodol, a flavonol from the leaves of *Calycopteris floribunda*, inhibits the growth of CaCo 2 colon cancer cell line in vitro. *Phytother Res.* 2008 Dec;22(12):1684-7.

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