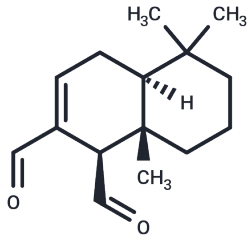
Data Sheet (Cat.No.T23172)

TargetMol
YOUR TARGET MOLECULES

Polygodial

Chemical Properties



CAS No. : 6754-20-7

Formula: C15H22O2

Molecular Weight: 234.33

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	Polygodial (Tadeonal) is an antifungal potentiator and an antibiotic, particularly against Saccharomyces cerevisiae, Candida utilis, and Sclerotinia libertiana.
Targets(IC50)	Antifungal
In vitro	When tested on S. cerevisiae, polygodial proved to be fungicidal rather than fungistatic. When the cells of S. cerevisiae are treated in vitro with polygodial for 10 min, the cell membrane becomes severely damaged, and many vesicles, possibly formed from the fragmented cell membrane, can be observed within the cytoplasm[1].
In vivo	Polygodial (0.1 to 10 mg kg(-1), i.p.) produced significant inhibition of acetic acid, kaolin and zymosan-induced writhing in mice, being about 14 to 27-fold more potent than the hydroalcoholic extract at the ID50 level[2].

Solubility Information

Solubility	DMSO: 65 mg/ml (277.39 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.2675 mL	21.3374 mL	42.6749 mL
5 mM	0.8535 mL	4.2675 mL	8.535 mL
10 mM	0.4267 mL	2.1337 mL	4.2675 mL
50 mM	0.0853 mL	0.4267 mL	0.8535 mL

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.

Reference

I Kubo, et al. Polygodial, an antifungal potentiator. J Nat Prod. Jan-Feb 1988;51(1):22-9.
G L Mendes, et al. Anti-hyperalgesic properties of the extract and of the main sesquiterpene polygodial isolated

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