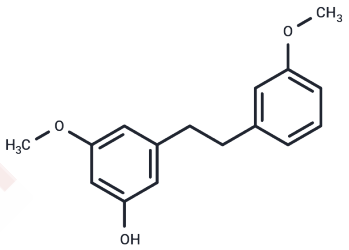
Data Sheet (Cat.No.TN1264)

TargetMol

3'-O-Methylbatatasin III

Chemical Properties



CAS No. :	101330-69-2
Formula:	C16H18O3
Molecular Weight:	258.31
Storage:	Store at low temperature Pure form: -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-Methylbatatasin III is a natural compound from the orchid plant Bletilla splendens with antibiotic activity and antispasmodic activity.3'-O-Methylbatatasin III exhibits antifungal activity.3'-O-Methylbatatasin III is a natural compound from the orchid plant Bletilla splendens with antibiotic activity and antispasmodic activity.
Targets(IC50)	Antifungal
In vitro	3'-O-methylbatatasin III (6) was tested for phytotoxicity in axenic cultures of the small aquatic plant Lemna pausicostata. 3'-O-methylbatatasin III inhibited growth and increased cellular leakage with IC50 values of 89.9-180 and 89.9-166 μM, respectively.[2]

Solubility Information

Solubility	DMSO: 90 mg/mL (348.42 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 3.3 mg/mL (12.78 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.8713 mL	19.3566 mL	38.7132 mL
5 mM	0.7743 mL	3.8713 mL	7.7426 mL
10 mM	0.3871 mL	1.9357 mL	3.8713 mL
50 mM	0.0774 mL	0.3871 mL	0.7743 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.

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

KusumSachdev, et al. Phenolic constituents of Coelogyne ovalis. Phytochemistry. 1986 Jan 22, 25 (2): 499-502.
Hernández-Romero Y, et al. Phytotoxic activity of bibenzyl derivatives from the orchid Epidendrum rigidum. J Agric Food Chem. 2005;53(16):6276-6280.

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