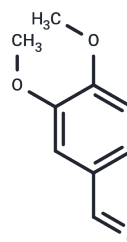


Veratraldehyde

Chemical Properties

CAS No. :	120-14-9
Formula:	C ₉ H ₁₀ O ₃
Molecular Weight:	166.17
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	Veratraldehyde (3,4-Dimethoxybenzaldehyde) has antifungal activity .It is found in Cymbopogon javanensis.
Targets(IC50)	Antibacterial,Parasite,Antifungal
In vitro	Veratraldehyde combination with OG overcame the tolerance of A. fumigatus mitogen-activated protein kinase (MAPK) mutants to Kre-Me, exhibits higher antifungal activity [1].
Cell Research	The minimum inhibitory concentrations (MICs) of OG were 0.3-0.5 mM, while that of Veratraldehyde were 3.0-5.0 mM in agar plate-bioassays.?OG or Veratraldehyde in concert with the fungicide kresoxim methyl (Kre-Me;?strobilurin) greatly enhanced sensitivity of Aspergillus strains to Kre-Me.?The combination with OG also overcame the tolerance of A. fumigatus mitogen-activated protein kinase (MAPK) mutants to Kre-Me[2]

Solubility Information

Solubility	DMSO: 27.5 mg/mL (165.49 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (12.04 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

	1mg	5mg	10mg
1 mM	6.0179 mL	30.0897 mL	60.1793 mL
5 mM	1.2036 mL	6.0179 mL	12.0359 mL
10 mM	0.6018 mL	3.009 mL	6.0179 mL
50 mM	0.1204 mL	0.6018 mL	1.2036 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

Kim J H , Mahoney N , Chan K L , et al. Use of benzo analogs to enhance antimycotic activity of kresoxim methyl for control of aflatoxigenic fungal pathogens[J]. *Frontiers in Microbiology*, 2014, 5.

B.S. Shylesha,T.V. Venkatesha,and B. M. Praveen. Veratraldehyde as Corrosion Inhibitor for Zinc in Different Acid Medium[J].*Der Pharma Chemica*, 2010, 2(6): 295-301

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481