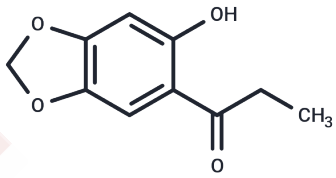
Data Sheet (Cat.No.T3S1960)

TargetMol

Kakuol

Chemical Properties



CAS No. : 18607-90-4

Formula: C10H10O4

Molecular Weight: 194.18

Appearance: no data available

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

Biological Description

Description	1. Kakuol has antifungal activity, it can completely inhibit the mycelial growth of Botrytis cinerea Pers ex Fr and Cladosporium cucumerinum Ellis & Arthur at 5 microg ml(-1) and 3 microg ml(-1), respectively. 2. kakuol and a derivative analogue are able to inhibit the DNA relaxation mediated by the human enzyme.
Targets(IC50)	Antifungal

Solubility Information

Solubility	Chloroform, Dichloromethane, Ethyl Acetate, Acetone, etc.: Soluble, DMSO: 55 mg/mL (283.24 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.1499 mL	25.7493 mL	51.4986 mL
5 mM	1.030 mL	5.1499 mL	10.2997 mL
10 mM	0.515 mL	2.5749 mL	5.1499 mL
50 mM	0.103 mL	0.515 mL	1.030 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

Lee J Y , Moon S S , Hwang B K . Isolation and antifungal activity of kakuol, a propiophenone derivative from Asarum sieboldii rhizome[J]. Pest Management Science, 2010, 61(8):821-825.

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