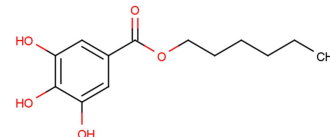


Hexyl gallate

Chemical Properties

CAS No.:	1087-26-9
Formula:	C ₁₃ H ₁₈ O ₅
Molecular Weight:	254.28
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Hexylgallate, an alkyl ester derivative of gallic acid, exhibits potent antimalarial activity against Plasmodium falciparum (IC ₅₀ : 0.11 mM).
Targets(IC ₅₀)	Others: None

Solubility Information

Solubility	DMSO: 41.67 mg/mL (163.87 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.933 mL	19.663 mL	39.327 mL
5 mM	0.787 mL	3.933 mL	7.865 mL
10 mM	0.393 mL	1.966 mL	3.933 mL
50 mM	0.079 mL	0.393 mL	0.787 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. Ade Arsianti, et al. Synthesis and in vitro antimalarial activity of alkyl esters of gallate as a growth inhibitor of plasmodium falciparum. Oriental Journal of Chemistry, 34(2), 655-662.

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