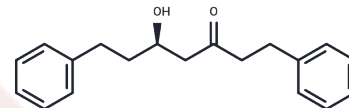


(R)-5-Hydroxy-1,7-diphenylheptan-3-one

Chemical Properties

CAS No. :	100761-20-4
Formula:	C ₁₉ H ₂₂ O ₂
Molecular Weight:	282.38
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	(R)-5-Hydroxy-1,7-diphenylheptan-3-one ((5R)-Dihydroyashabushiketol) is extracted from the rhizomes of <i>Alpinia officinarum</i> , a Chinese medicinal herb, and inhibits melanogenesis in theophylline-stimulated murine B16 melanoma 4A5 cells.
Targets(IC50)	Others,Nrf2

Solubility Information

Solubility	DMSO: 60 mg/mL (212.48 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 (7.08 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	3.5413 mL	17.7066 mL	35.4133 mL
5 mM	0.7083 mL	3.5413 mL	7.0827 mL
10 mM	0.3541 mL	1.7707 mL	3.5413 mL
50 mM	0.0708 mL	0.3541 mL	0.7083 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

Matsuda H , Nakashima S , Oda Y , et al. Melanogenesis inhibitors from the rhizomes of *Alpinia officinarum* in B16 melanoma cells[J]. *Bioorganic & Medicinal Chemistry*, 2009, 17(16):6048-6053.

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