

Isobavachromene

Chemical Properties

CAS No.:	56083-03-5
Formula:	C ₂₀ H ₁₈ O ₄
Molecular Weight:	322.36
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Isobavachromene is a natural product from <i>Psoralea corylifolia</i>
Targets(IC ₅₀)	Others: None
In vitro	4-hydroxytonochocarpin (HLCP) inhibits melanogenesis through the inhibition of melanogenic enzymes and MITF expression as well as activity

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.102 mL	15.511 mL	31.021 mL
5 mM	0.62 mL	3.102 mL	6.204 mL
10 mM	0.31 mL	1.551 mL	3.102 mL
50 mM	0.062 mL	0.31 mL	0.62 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. Jihyun, Lim, Sorim, et al. Antimelanogenic effect of 4-hydroxytonochocarpin through the inhibition of tyrosinase-related proteins and MAPK phosphatase[J]. *Experimental Dermatology*, 2016.

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