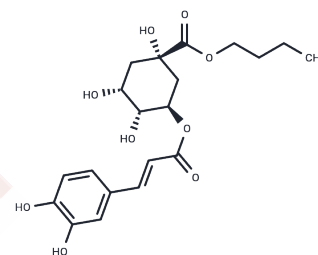


Butyl chlorogenate

Chemical Properties

CAS No. :	132741-56-1
Formula:	C ₂₀ H ₂₆ O ₉
Molecular Weight:	410.42
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Butylchlorogenate is a natural compound isolated from <i>Lonicera japonica</i> , <i>Urceola rosea</i> .
Targets(IC50)	Others, Tyrosinase
In vitro	Butyl chlorogenate were evaluated for their inhibitory activity against melanogenesis in α -MSH-stimulated B16 melanoma cells, five caffeoylquinic acids, i.e. Butyl chlorogenate exhibited inhibitory activities with 33-62% reduction of melanin content at 100 μ M concentration with no or almost no toxicity to the cells (89-114% of cell viability at 100 μ M). Western blot analysis showed that Butyl chlorogenate reduced the protein levels of microphthalmia-associated transcription factor (MITF), tyrosinase, tyrosine-related protein 1 (TRP-1), and TRP-2 mostly in a concentration-dependent manner, suggesting that this compound inhibits melanogenesis on α -MSH-stimulated B16 melanoma cells by, at least in part, inhibiting the expression of MITF, followed by decreasing the expression of tyrosinase, TRP-1, and TRP-2.[1]

Solubility Information

Solubility	DMSO: 4.11 mg/mL (10.01 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4365 mL	12.1826 mL	24.3653 mL
5 mM	0.4873 mL	2.4365 mL	4.8731 mL
10 mM	0.2437 mL	1.2183 mL	2.4365 mL
50 mM	0.0487 mL	0.2437 mL	0.4873 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

Akihisa T, et al. Antioxidative and melanogenesis-inhibitory activities of caffeoylquinic acids and other compounds from moxa. *Chem Biodivers.* 2013;10(3):313-327.

Kirmizibekmez H, et al. Phenolic compounds from *Hypericum calycinum* and their antioxidant activity. *Nat Prod Commun.* 2009;4(4):531-534.

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