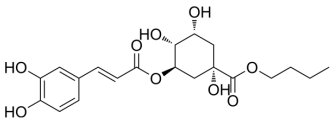
Chlorogenic acid butyl ester

Cat. No.:	HY-N10016
CAS No.:	132741-56-1
Molecular Formula:	$C_{20}H_{26}O_9$
Molecular Weight:	410.42
Target:	Tyrosinase
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Chlorogenic acid butyl ester, a caffeoylquinic acid, is a potent melanogenesis inhibitor. Chlorogenic acid butyl ester inhibits the expression of microphtalmia-associated transcription factor (MITF), tyrosinase, tyrosinerelated protein 1 (TRP-1), and TRP-2. Chlorogenic acid butyl ester also shows antioxidant activity[1].
In Vitro	Chlorogenic acid butyl ester exhibits inhibitory activities with 33-62% reduction of melanin content at 100 μM concentration on a-MSH-stimulated B16 melanoma cells with no or almost no toxicity to the cells[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Akihisa T, et al. Antioxidative and melanogenesis-inhibitory activities of caffeoylquinic acids and other compounds from moxa. Chem Biodivers. 2013 Mar;10(3):313-27.

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