Kushenol C

Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: Pathway: Storage:	HY-108966 99119-73-0 C ₂₅ H ₂₆ O ₇ 438.47 Beta-secretase Neuronal Signaling Please store the product under the recommended conditions in the Certificate of	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

BIOLOGICAL ACTIVITY		
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Description	Kushenol C, isolated from the roots of Sophora flavescens, shows anti-Inflammatory and anti-oxidative stress activities. Kushenol C inhibits BACE1 (β-site APP cleaving enzyme 1) with an IC ₅₀ of 5.45 μM ^{[1][2]} .	
In Vitro	Kushenol C dose-dependently suppresses the production of inflammatory mediators, including NO, PGE2, IL-6, IL1β, MCP-1, and IFN-β in LPS-stimulated RAW264.7 macrophages. Kushenol C (50-100 μM;) significantly decreases the phosphorylation of both STAT1 molecules and STAT6 in a dose-dependent manner in LPS-stimulated RAW264.7 cells ^[1] . Kushenol C upregulates the expression of HO-1 and its activities in the LPS-stimulated RAW264.7 macrophages. In HaCaT cells, Kushenol C prevents DNA damage and cell death by upregulating the endogenous antioxidant defense system involving glutathione, superoxide dismutase, and catalase, which prevents reactive oxygen species production from tert- butyl hydroperoxide (tBHP)-induced oxidative stress in HaCaT cells ^[1] . Kushenol C inhibits BChE and AChE with IC ₅₀ s of 54.86 and 33.13 μM ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

REFERENCES

[1]. Cho BO, et al. In vitro Anti-Inflammatory and Anti-Oxidative Stress Activities of Kushenol C Isolated from the Roots of Sophoraflavescens. Molecules. 2020;25(8):1768. Published 2020 Apr 12.

[2]. Jung HA, et al. Selective inhibition of prenylated flavonoids from Sophora flavescens against BACE1 and cholinesterases. Am J Chin Med. 2010;38(2):415-429.

Caution: Product has not been fully validated for medical applications. For research use only.

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Product Data Sheet

