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Zuschläge

- Mindermengenzuschlag
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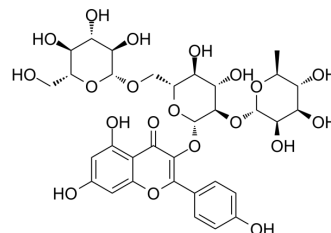
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Plantanone B

Cat. No.:	HY-N8167
CAS No.:	55780-30-8
Molecular Formula:	C ₃₃ H ₄₀ O ₂₀
Molecular Weight:	756.66
Target:	COX
Pathway:	Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Plantanone B is a moderate antioxidant-agent with an IC ₅₀ of 169.8±5.2 μM. Plantanone B shows significant ovine COX-1 and moderate COX-2 inhibitory activities. Plantanone B has the potential for inflammation-related diseases research ^[1] .	
IC₅₀ & Target	Ovine COX-1 21.78±0.2 μM (IC ₅₀)	Ovine COX-2 44.01±0.42 μM (IC ₅₀)
In Vitro	<p>The antioxidant activity of Plantanone B is measured by the DPPH method. Plantanone B exhibits a moderate antioxidant activity, with an IC₅₀ value of 169.8±5.2 μM^[1].</p> <p>Plantanone B inhibits COX-1 preferentially over COX-2 with selectivity index (SI) value of 0.49. It shows significant inhibitory activities against ovine COX-1 and COX-2 at concentration of 50 μM, with the inhibition of 76.18% and 21.78%, respectively^[1].</p> <p>.Plantanone B shows significant COX-1 and moderate COX-2 inhibitory activities with IC₅₀ values of 21.78±0.20 μM for COX-1, as well as 44.01±0.42 μM for COX-2, respectively^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>	

REFERENCES

[1]. Jun-Wei He, et al. Anti-inflammatory and antioxidant activities of flavonoids from the flowers of *Hosta plantaginea* RSC Adv., 2018, 8, 18175-18179

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

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