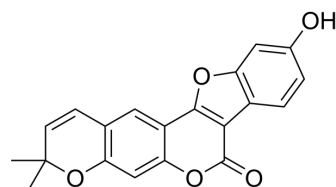


4'',5''-Dehydroisopsoralidin

Cat. No.:	HY-N9975
CAS No.:	65639-51-2
Molecular Formula:	C ₂₀ H ₁₄ O ₅
Molecular Weight:	334.32
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	4'',5''-Dehydroisopsoralidin is a β -glucuronidase inhibitor (IC ₅₀ : 6.3 μ M). 4'',5''-Dehydroisopsoralidin has anti-inflammatory and anti-oxidative effects. 4'',5''-Dehydroisopsoralidin can be used in the research of inflammation and cancers ^{[1][2]} .
IC₅₀ & Target	β -glucuronidase ^[1]
In Vitro	<p>4'',5''-Dehydroisopsoralidin (compound 5, 15 min) inhibits the release of β-glucuronidase in polymorphonuclear leukocytes (PMNs) of rats, with an IC₅₀ value of 6.3 μM^[1].</p> <p>4'',5''-Dehydroisopsoralidin (compound 9, 24 h) shows weak cytotoxicity (IC₅₀: >50 μM) to H4IIE, HCT116, C6 cells^[2].</p> <p>4'',5''-Dehydroisopsoralidin (25 μM, 1h) causes significant radical scavenging in H4IIE rat hepatoma cells (TEAC assay)^[2].</p> <p>4'',5''-Dehydroisopsoralidin (compound 5, 15 μM, 60 h) increases lifespan in <i>P. corylifolia</i> (MEP assay)^[3].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

- [1]. De-Wu Zhang, et al. Solalyratins A and B, new anti-inflammatory metabolites from *Solanum lyratum*. *J Nat Med*. 2012 Apr;66(2):362-6.
- [2]. Christian Limper, et al. Compounds isolated from *Psoralea corylifolia* seeds inhibit protein kinase activity and induce apoptotic cell death in mammalian cells. *J Pharm Pharmacol*. 2013 Sep;65(9):1393-408.
- [3]. Tong-Hong Wang, et al. The flavonoid corylin exhibits lifespan extension properties in mouse. *Nat Commun*. 2022 Mar 9;13(1):1238.

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

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