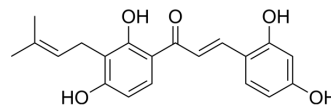


Morachalcone A

Cat. No.:	HY-N3246
CAS No.:	76472-88-3
Molecular Formula:	C ₂₀ H ₂₀ O ₅
Molecular Weight:	340.37
Target:	NO Synthase
Pathway:	Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Morachalcone A is a naturally-occurring aromatase inhibitor (IC ₅₀ =4.6 mM). Morachalcone A is also a plants metabolite with potential anti-inflammatory and anticancer activity. Morachalcone A inhibits Lipopolysaccharide (HY-D1056)-induced nitric oxide production ^{[1][2][3]} .
In Vitro	Morachalcone A is the metabolite of <i>Maclura pomifera</i> (the Osage orange tree) and <i>Hypericum Geminiflorum</i> and <i>Broussonetia papyrifera</i> ^[1] . Morachalcone A exhibits inhibitory activities against lipopolysaccharide-induced nitric oxide production in cultured RAW 264.7 cells ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Brandt D R, et al. The synthetic preparation of naturally-occurring aromatase inhibitors, morachalcone A, isogemichalcone B, and isogemichalcone C[J]. *Tetrahedron*, 2013, 69(47): 9994-10002.
- [2]. Kang Y J, et al. Inhibitory effects of morachalcone A on lipopolysaccharide-induced nitric oxide production in raw 264.7 cells[J]. 2009.
- [3]. Ferlinahayati, et al. Phenolic constituents from the wood of *Morus australis* with cytotoxic activity. *Z Naturforsch C J Biosci*. 2008 Jan-Feb;63(1-2):35-9.

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

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