
Product Data Sheet

Product Name: 8-Deoxygartanin

Cat. No.: GC35199

Chemical Properties

Cas. No. 33390-41-9

SMILES C/C(C)=C\CC1=C(O)C(C/C=C(C)/C)=C(O)C(C(C2=CC=C3)=O)=C1OC2=C3O

Formula $C_{23}H_{24}O_5$

M.Wt 380.43

Solubility DMSO : 100 mg/mL (262.86 mM; Need ultrasonic) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

8-Deoxygartanin, a prenylated xanthenes from *G. mangostana*, is a selective inhibitor of butyrylcholinesterase (BChE)[1]. 8-Deoxygartanin exhibits antiplasmodial activity with an IC₅₀ of 11.8 μM for the W2 strain of *Plasmodium falciparum*[2]. 8-Deoxygartanin inhibits NF-κB (p65) activation with an IC₅₀ of 11.3 μM[3]. p65|11.3 μM (IC₅₀)

[1]. Khaw KY, et al. Prenylated xanthenes from mangosteen as promising cholinesterase inhibitors and their molecular docking studies. *Phytomedicine*. 2014 Sep 25;21(11):1303-9. [2]. Ngouamegne ET, et al. Endodesmiadiol, a friedelane triterpenoid, and other antiplasmodial compounds from *Endodesmia calophylloides*. *Chem Pharm Bull (Tokyo)*. 2008 Mar;56(3):374-7. [3]. Han AR, et al. Cytotoxic xanthone constituents of the stem bark of *Garcinia mangostana* (mangosteen). *J Nat Prod*. 2009 Nov;72(11):2028-31.

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

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