
Product Data Sheet

Product Name: 3-O-Methylellagic acid

Cat. No.: GC61812

Chemical Properties

Cas. No. 51768-38-8

SMILES O=C1C2=CC(O)=C(OC)C(O3)=C2C4=C(C3=O)C=C(O)C(O)=C4O1

Formula $C_{15}H_8O_8$ M.Wt 316.22

Solubility Storage Store at $-20^{\circ}C$

General tips For obtaining a higher solubility, please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ 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

3-O-Methylellagic acid is a nature product that can be isolated from *Myrciaria cauliflora*, with anti-inflammatory activity. 3-O-Methylellagic acid shows an inhibitory effect on glucose transport assay. 3-O-Methylellagic acid has antibacterial activity, with a MIC of $32 \mu\text{g/mL}$ for *Staph. Aureus* ATCC 25923[1][2][3].

[1]. Da-Ke Zhao, et al. Jaboticabin and Related Polyphenols from Jaboticaba (*Myrciaria cauliflora*) with Anti-inflammatory Activity for Chronic Obstructive Pulmonary Disease. *J Agric Food Chem.* 2019 Feb 6;67(5):1513-1520. [2]. Active compounds from *Lagerstroemia speciosa*, insulin-like glucose uptake-stimulatory/inhibitory and adipocyte differentiation-inhibitory activities in 3T3-L1 cells. *J Agric Food Chem.* 2008 Dec 24;56(24):11668-74. [3]. Sgariglia, M. A., et al. Isolation of antibacterial components from infusion of *Caesalpinia paraguariensis* bark. A bio-guided phytochemical study. *Food Chemistry*, 2011. 126(2), 395-404.

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

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