
Product Data Sheet

Product Name: Camelliaside A

Cat. No.: GC35599

Chemical Properties

Cas. No. 135095-52-2

SMILES O=C1C(O[C@H]2[C@@H]([C@H]([C@H](O)[C@@H](CO[C@H]3[C@@H]([C@@H]([C@@H](O)[C@H](C)O3)O)O)O)O[C@]4([H])O[C@@H]([C@H](O)[C@H](O)[C@H]4O)CO)=C(C5=CC=C(O)C=C5)OC6=CC(O)=CC(O)=C61

Formula C₃₃H₄₀O₂₀

M.Wt 756.66

Solubility DMSO : 100 mg/mL (132.16 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**

Camelliaside A is a flavonoid that has been found in *C. sinensis* and has radical scavenging and enzyme inhibitory activities.^{1,2,3,4} It scavenges superoxide radicals in a cell-free assay (IC₅₀ = 137.44 μM).¹ Camelliaside A (1 μM) inhibits recombinant human monoamine oxidase B (MAO-B) in a cell-free assay.⁴ It also inhibits 5-lipoxygenase (5-LO) in RBL-1 rat basophilic leukemia cells (IC₅₀ = 390 μM).³

1.Kang, B., Chang, H., Na, Y.J., et al.Extract of enzyme-hydrolyzed green tea seed as potent melanin synthesis inhibitorBull. Korean Chem. Soc.34(7)2199-2202(2013) 2.Park, J.S., Rho, H.S., Kim, D.H., et al.Enzymatic preparation of kaempferol from green tea seed and its antioxidant activity]. Agric. Food Chem.54(8)2951-2956(2006) 3.Sekine, T., Arai, Y., Ikegami, F., et al.Isolation of camelliaside C from "tea seed cake" and inhibitory effects of its derivatives on arachidonate 5-lipoxygenaseChem. Pharm. Bull. (Tokyo)41(6)1185-1187(1993) 4.Shkondrov, A., Krasteva, I., Bucar, F., et al.A new

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

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tetracyclic saponin from Astragalus glycyphyllos L. and its neuroprotective and hMAO-B inhibiting activity Nat. Prod. Res. 34(4)511-517(2020)

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