

Product Data Sheet

Product Name: Garcinoic Acid

Cat. No.: GC46150

Chemical Properties

Cas. No. 91893-83-3

SMILES OC1=CC(C)=C2C(CC[C@](C)(C/C=C(C)/CC/C=C(C)/CC/C=C(C)/C(O)=O)(C)O2)=C1

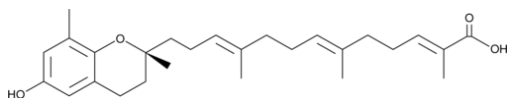
Formula C27H38O4 M.Wt 426.6

Solubility DMF: 30 mg/ml, DMSO: 30 mg/ml, DMSO:PBS (pH 7.2) (1:3): 0.25 mg/ml, Ethanol: 30 mg/ml
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

Garcinoic acid is a derivative of vitamin E originally isolated from *C. grandiflora*.¹ It inhibits IL-1 β -induced microsomal prostaglandin E2 synthase-1 (mPGES-1) activity in A549 cells when used at concentrations of 1 and 10 μ M.² It has higher antioxidant activity relative to ($\pm$)- α -tocopherol in a cell-free assay when used at a concentration of 0.15 mM.³

[1. Monache, F.D., Marta, M., Mac-Quhae, M.M., et al. Two new tocotrienoloic acids from the fruits of *Clusia grandiflora* Splith. Gazz. Chim. Ital. 114(3-4), 135-137 (1984).|2. Alsabil, K., Suor-Cherer, S., Koeberle, A., et al. Semisynthetic and natural garcinoic acid isoforms as new mPGES-1 inhibitors. Planta Med. 82(11-12), 1110-1116 (2016).|3. Terashima, K., Takaya, Y., and Niwa, M. Powerful antioxidative agents based on garcinoic acid from *Garcinia kola*. Bioorg. Med. Chem. 10(5), 1619-1625 (2002).

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

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