
Product Data Sheet

Product Name: Garcinone C

Cat. No.: GN10696

Chemical Properties

Cas. No. 76996-27-5

Chemical Name 1,3,6,7-tetrahydroxy-8-(3-hydroxy-3-methylbutyl)-2-(3-methylbut-2-enyl)xanthen-9-one

SMILES CC(=CCC1=C(C=C2C(=C1O)C(=O)C3=C(C(=C(C=C3O2)O)O)O)CCC(C)(C)O)O)CFormula C₂₃H₂₆O₇

M.Wt 414.45

Solubility ≥ 80mg/mL in DMSO

Storage 4°C, protect from light

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**

Garcinone C, a xanthone derivative, is a natural compound extracted from *Garcinia oblongifolia* Champ that is used as an anti-inflammatory, analgesia, astringency and granulation-promoting medicine, and has potential cytotoxic effects on certain cancers. Garcinone C stimulates the expression levels of ATR and 4E-BP1, while efficiently inhibiting the expression levels of cyclin B1, cyclin D1, cyclin E2, cdc2, Stat3 and CDK7. Garcinone C significantly inhibits cell viability of the human Nasopharyngeal carcinoma (NPC) cell lines CNE1, CNE2, HK1 and HONE1 in a time- and dose-dependent manner[1].

References:

[1]. Xia Y, et al. Garcinone C exerts antitumor activity by modulating the expression of ATR/Stat3/4E BP1 in nasopharyngeal carcinoma cells. *Oncol Rep.* 2018 Mar;39(3):1485-1493.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA
