

Gambogenic acid Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Gambogenic acid

Catalog No.: CFN92097

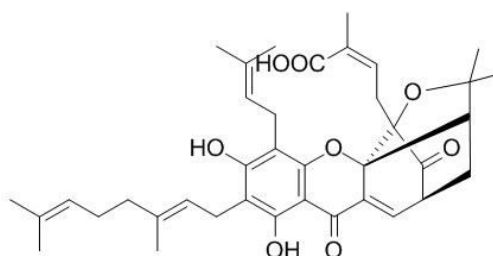
Cas No.: 173932-75-7

Purity: > 98%

M.F: C₃₈H₄₆O₈

M.W: 630.8

Physical Description: Powder



Synonyms:(2Z)-4-[(1R,3aS,5S,12aS)-9-[(2E)-3,7-Dimethyl-2,6-octadien-1-yl]-3a,4,5,7-tetrahydro-8,10-dihydroxy-3,3-dimethyl-11-(3-methyl-2-buten-1-yl)-7,13-dioxo-1,5-methano-1H,3H-furo[3,4-d]xanthen-1-yl]-2-methyl-2-butenoic acid.

[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Synthetic precursor compounds;
4. Intermediates & Fine Chemicals;
5. Others.

[Source]

The herbs of *Garcinia hanburyi* Hook. f.

[Biological Activity or Inhibitors]

Gambogenic acid(GNA) can significantly inhibit the proliferation of several tumor cell lines in vitro and in vivo, treatment with GNA dose and time can dependently induce A549 cells apoptosis, arrest the cells to G0/G1 phase in vitro and down-regulated the expression of cyclin D1 and cyclooxygenase (COX)-2 in mRNA level, suggests that GNA inhibits tumor cell proliferation via apoptosis-induction and cell cycle arrest.^[1]

Gambogenic acid can cause aberrant autophagy to induce cell death and may suggest the potential application of GNA as a tool or viable drug in anticancer therapies.^[2]

[Solvent]

Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

[HPLC Method]^[3]

Mobile phase: Methanol-0.1% Acetic acid H₂O=93:7 ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 360 nm.

[Storage]

2-8°C, Protected from air and light, refrigerate or freeze.

[References]

[1] Li Q, Cheng H, Zhu G, *et al. Biol. Pharm. Bull.*, 2010, 33(3):415-20.

[2] Mei W, Dong C, Hui C, *et al. Plos One*, 2014, 9(1):e83604-e83604.

[3] Zhou A, Li Q L , Peng D Y. *Chinese Journal of Information on Traditional Chinese Medicine*, 2008, 15(8):53-4.

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