

Isogambogenic acid Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Isogambogenic acid

Catalog No.: CFN92096

Cas No.: 887923-47-9

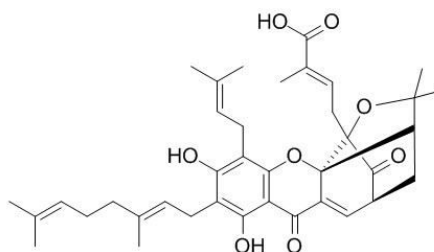
Purity: > 95%

M.F: C₃₈H₄₆O₈

M.W: 630.8

Physical Description: Powder

Synonyms: (2E)-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-butenic 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]

Isogambogenic acid (iso-GNA) is a well-known herbal medicine extracted from *Garcinia hanburyi*, it has anti-cancer effects; iso-GNA can suppress angiogenesis-mediated tumour growth by targeting VEGFR2, Akt, mitogen-activated protein kinase, Rho GTPase, vascular endothelium-cadherin, and focal adhesion kinase signalling pathways; suggests that iso-GNA inhibits angiogenesis and may be a viable drug candidate in anti-angiogenesis and anti-cancer therapies.^[1]

Isogambogenic acid exhibits an anticancer effect by inducing autophagy-dependent cell death in non-small cell lung carcinoma (NSCLC) cells, which may be an effective chemotherapeutic agent that can be used against NSCLC in a clinical setting.^[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: 30 °C;

The wave length of determination: 360 nm.

[Storage]

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

[References]

[1] Fan Y, Peng A, He S, *et al. J. Chemotherapy*, 2013, 25(5):298-308.

[2] Yang J, Zhou Y, Cheng X, *et al. Sci. Rep.-UK*, 2015, 5:7697-7697.

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

[Contact]

Address:

S5-3 Building, No. 111, Dongfeng Rd.,
Wuhan Economic and Technological Development Zone,
Wuhan, Hubei 430056,
China

Email: info@chemfaces.com

Tel: +86-27-84237783

Fax: +86-27-84254680

Web: www.chemfaces.com

Tech Support: service@chemfaces.com