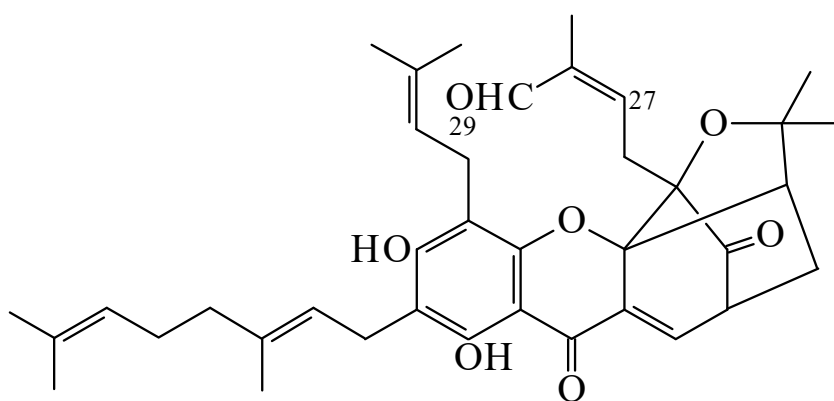




>>Entry Name: Gambogenin



CAS Registry Number: 173867-03-3

Molecular Formula: C₃₈H₄₆O₇

Molecular Weight: 614.777

Accurate Mass: 614.324355

Percentage Composition: C 74.24%; H 7.54%; O 18.22%

General Statement: There is conflicting data regarding the C-27 configs.

Biological Source: Constit. of *Garcinia hanburyi* (Guttiferae)

Physical Description: Yellow gum

Optical Rotation: $[\alpha]_D^{27}$ -440 (c, 0.1 in CHCl₃)

UV: [neutral] $\lambda_{\max}$ 362 (ϵ 16600) (EtOH) [neutral] $\lambda_{\max}$ 361 (ϵ 16596) (MeOH) (Berdy)

Other Data: Related to Gambogic acid [HGN37-P](#) and Hanburin [NSF99-P](#)

>>Derivative: Di-Me acetal

Synonym(s): Gambogenin dimethyl acetal

CAS Registry Number: 173614-94-3

Molecular Formula: C₄₀H₅₂O₈

Molecular Weight: 660.846

Accurate Mass: 660.36622

Percentage Composition: C 72.70%; H 7.93%; O 19.37%

Biological Source: Constit. of *Garcinia hanburyi* (Guttiferae)

Physical Description: Yellow gum

Optical Rotation: $[\alpha]_D^{27}$ -295 (c, 0.1 in CHCl₃)

UV: [neutral] $\lambda_{\max}$ 263 (ϵ 5370); 277 (ϵ 5370); 358 (ϵ 10200) (EtOH) [neutral] $\lambda_{\max}$ 358 () (MeOH) (Berdy)

>>Derivative: (27*E*)-Isomer

Synonym(s): Isogambogenin

CAS Registry Number: 173938-23-3

Molecular Formula: C₃₈H₄₆O₇

Molecular Weight: 614.777

Accurate Mass: 614.324355

Percentage Composition: C 74.24%; H 7.54%; O 18.22%

Biological Source: Constit. of *Garcinia hanburyi* (Guttiferae)

Physical Description: Yellow gum

Optical Rotation: $[\alpha]_D^{24}$ -425 (c, 0.1 in CHCl₃)

UV: [neutral] $\lambda_{\max}$ 361 (ϵ 15500) (EtOH) [neutral] $\lambda_{\max}$ 361 (ϵ 16596) (MeOH) (Berdy)

>>Derivative: 29-Carboxylic acid

Synonym(s): Gambogenic acid

CAS Registry Number: 173932-75-7

Molecular Formula: C₃₈H₄₆O₈

Molecular Weight: 630.777

Accurate Mass: 630.31927

Percentage Composition: C 72.36%; H 7.35%; O 20.29%

Biological Source: Constit. of *Garcinia hanburyi* (Guttiferae)

Physical Description: Yellow powder

Melting Point: Mp 77-78°

Optical Rotation: $[\alpha]_D^{26}$ -246 (c, 0.1 in CHCl₃)

UV: [neutral] $\lambda_{\max}$ 360 (ϵ 10700) (EtOH) [neutral] $\lambda_{\max}$ 360 (ϵ 10715) (MeOH) (Berdy)