



**Percentage Composition:** C 66.40%; H 5.17%; O 28.43%

**Biological Source:** Constit. of *Aglaia elliptica*

**Physical Description:** Amorph. powder

**Optical Rotation:**  $[\alpha]_{\text{D}}^{20} -59.8$  (c, 0.1 in  $\text{CHCl}_3$ )

**UV:** [neutral]  $\lambda_{\text{max}}$  209 (log  $\epsilon$  4.58); 239 (sh) (); 282 (log  $\epsilon$  2.47) (MeOH) [neutral]  $\lambda_{\text{max}}$  209 ( $\epsilon$  38000); 282 ( $\epsilon$  295) (MeOH) (Berdy)

>>**Derivative:** 4'-Demethoxy, 3',4'-methylenedioxy, 1-*O*-formyl, Me ester

**CAS Registry Number:** 201212-35-3

**Molecular Formula:**  $\text{C}_{29}\text{H}_{26}\text{O}_{10}$

**Molecular Weight:** 534.518

**Accurate Mass:** 534.1526

**Percentage Composition:** C 65.17%; H 4.90%; O 29.93%

**Biological Source:** Constit. of *Aglaia elliptica*

**Physical Description:** Amorph. powder

**Optical Rotation:**  $[\alpha]_{\text{D}}^{20} -102$  (c, 0.4 in  $\text{CHCl}_3$ )

**UV:** [neutral]  $\lambda_{\text{max}}$  210 (log  $\epsilon$  4.34); 284 (log  $\epsilon$  3.12) (MeOH)

>>**Derivative:** 4'-Demethoxy, 3',4'-methylenedioxy, 1-Ac, Me ester

**Molecular Formula:**  $\text{C}_{30}\text{H}_{28}\text{O}_{10}$

**Molecular Weight:** 548.545

**Accurate Mass:** 548.16825

**Percentage Composition:** C 65.69%; H 5.14%; O 29.17%

**Biological Source:** Constit. of *Aglaia spectabilis*

>>**Derivative:** Decarboxy

**Synonym(s):** Rocaglaol. Aglaiastatin A. Ferrugin

**CAS Registry Number:** 147059-46-9

**Molecular Formula:**  $\text{C}_{26}\text{H}_{26}\text{O}_6$

**Molecular Weight:** 434.488

**Accurate Mass:** 434.17294

**Percentage Composition:** C 71.87%; H 6.03%; O 22.09%

**Biological Source:** Constit. of *Aglaia ferruginaea* and *Aglaia odorata*

**Biological Use/Importance:** Oncogene function inhibitor, cytotoxic agent

**Physical Description:** Cryst. ( $\text{Et}_2\text{O}$ /hexane)

**Melting Point:** Mp 76-77°

**Optical Rotation:**  $[\alpha]_{\text{D}}^{20} -125$  (c, 0.48 in  $\text{CHCl}_3$ )

**UV:** [neutral]  $\lambda_{\text{max}}$  211 ( $\epsilon$  55000); 234 ( $\epsilon$  19500); 275 ( $\epsilon$  2950) (EtOH) (Derep) [neutral]  $\lambda_{\text{max}}$  272 () (MeOH) (Berdy) [acid]  $\lambda_{\text{max}}$  275 () (MeOH-HCl) (Berdy) [base]  $\lambda_{\text{max}}$  273 () (MeOH-NAOH) (Berdy)

**Other Data:** Struct. of Ferrugin revised in 1998

**Hazard & Toxicity:** BERDY HAZD :  $\text{LD}_{50}$  (mus, ipr) 300 mg/kg

>>**Derivative:** Decarboxy, 3'-(3-*O*-methyl- $\alpha$ -L-rhamnopyranosyloxy)

**CAS Registry Number:** 194873-87-5

**Molecular Formula:**  $\text{C}_{33}\text{H}_{38}\text{O}_{11}$

**Molecular Weight:** 610.657

**Accurate Mass:** 610.241415

**Percentage Composition:** C 64.91%; H 6.27%; O 28.82%

**Biological Source:** Constit. of *Aglaia harmsiana*

**Optical Rotation:**  $[\alpha]_{\text{D}}^{20} -133$  (c, 0.2 in  $\text{CHCl}_3$ )

>>**Derivative:** Decarboxy, 3'-(2-*O*-acetyl-3-*O*-methyl- $\alpha$ -L-rhamnopyranosyloxy)

**Molecular Formula:**  $\text{C}_{35}\text{H}_{40}\text{O}_{12}$

**Molecular Weight:** 652.694

**Accurate Mass:** 652.25198

**Percentage Composition:** C 64.41%; H 6.18%; O 29.42%

**Biological Source:** Constit. of *Aglaia laxiflora*

**Biological Use/Importance:** Cytotoxic agent

**Physical Description:** Cryst. ( $\text{CHCl}_3$ )

**Melting Point:** Mp 107-109°

**Optical Rotation:**  $[\alpha]$