



**CAS Registry Number:** 84573-16-0

**Molecular Formula:** C<sub>29</sub>H<sub>31</sub>NO<sub>7</sub>

**Molecular Weight:** 505.566

**Accurate Mass:** 505.210054

**Percentage Composition:** C 68.90%; H 6.18%; N 2.77%; O 22.15%

**Biological Source:** Isol. from roots and stems of *Aglaia elliptifolia* and *Aglaia odorata*

**Biological Use/Importance:** Shows antileukaemic and insecticidal activities

**Physical Description:** Cryst. (MeOH)

**Melting Point:** Mp 129-130°

**Optical Rotation:** [ $\alpha$ ]<sub>D</sub><sup>25</sup> -96 (c, 1.00 in CHCl<sub>3</sub>)

**UV:** [neutral]  $\lambda_{\max}$  211 ( $\epsilon$  55000); 234 ( $\epsilon$  19500); 275 ( $\epsilon$  2950) (EtOH) (Derep)

>>Derivative: 4-Hydroxybutylamide

**CAS Registry Number:** 194873-83-1

**Molecular Formula:** C<sub>31</sub>H<sub>35</sub>NO<sub>8</sub>

**Molecular Weight:** 549.619

**Accurate Mass:** 549.236269

**Percentage Composition:** C 67.75%; H 6.42%; N 2.55%; O 23.29%

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

**Optical Rotation:** [ $\alpha$ ]<sub>D</sub><sup>20</sup> -61.4 (c, 0.2 in CHCl<sub>3</sub>)

>>Derivative: 4-Hydroxybutylamide, 1-Ac

**CAS Registry Number:** 194873-84-2

**Molecular Formula:** C<sub>33</sub>H<sub>37</sub>NO<sub>9</sub>

**Molecular Weight:** 591.657

**Accurate Mass:** 591.246834

**Percentage Composition:** C 66.99%; H 6.30%; N 2.37%; O 24.34%

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

**Optical Rotation:** [ $\alpha$ ]<sub>D</sub><sup>20</sup> -71.7 (c, 0.2 in CHCl<sub>3</sub>)

>>Derivative: Tetrahydro-2-furanamide(*R*-)

**CAS Registry Number:** 194873-86-4

**Molecular Formula:** C<sub>31</sub>H<sub>33</sub>NO<sub>8</sub>

**Molecular Weight:** 547.604

**Accurate Mass:** 547.220619

**Percentage Composition:** C 67.99%; H 6.07%; N 2.56%; O 23.37%

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

**Optical Rotation:** [ $\alpha$ ]<sub>D</sub><sup>20</sup> -45.3 (c, 0.2 in CHCl<sub>3</sub>)

>>Derivative: Tetrahydro-2-furanamide(*S*-)

**CAS Registry Number:** 194873-85-3

**Molecular Formula:** C<sub>31</sub>H<sub>33</sub>NO<sub>8</sub>

**Molecular Weight:** 547.604

**Accurate Mass:** 547.220619

**Percentage Composition:** C 67.99%; H 6.07%; N 2.56%; O 23.37%

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

**Optical Rotation:** [ $\alpha$ ]<sub>D</sub><sup>20</sup> -22.2 (c, 0.08 in CHCl<sub>3</sub>)

>>Derivative: 1-*O*-Formyl, Me ester

**Molecular Formula:** C<sub>29</sub>H<sub>28</sub>O<sub>9</sub>

**Molecular Weight:** 520.535

**Accurate Mass:** 520.173335

**Percentage Composition:** C 66.92%; H 5.42%; O 27.66%

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

**Optical Rotation:** [ $\alpha$ ]<sub>D</sub><sup>20</sup> -140.9 (c, 2.1 in EtOH)