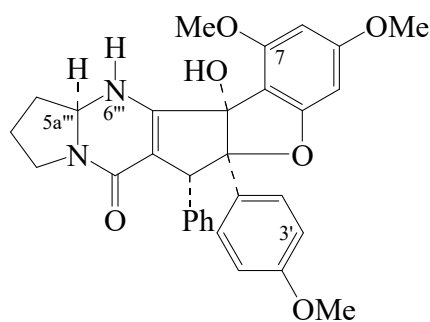




>>Entry Name: Aglaiastatin

Synonym(s): Aglaroxin D



CAS Registry Number: 176785-78-7

Molecular Formula: C₃₁H₃₀N₂O₆

Molecular Weight: 526.588

Accurate Mass: 526.210388

Percentage Composition: C 70.71%; H 5.74%; N 5.32%; O 18.23%

Biological Source: Isol. from leaves of *Aglaia odorata* and *Aglaia roxburghiana*

Biological Use/Importance: Protein synthesis inhibitor

Physical Description: Powder + 1½H₂O

Melting Point: Mp 157-160°

Optical Rotation: [α]_D²³+59.7 (c, 0.3 in MeOH)

UV: [neutral] λ_{max} 281 (ε 4163); 304 (ε 4480) (MeOH)

>>Derivative: 5a''',N^{6'''}-Didehydro

Synonym(s): Didehydroaglaiastatin

CAS Registry Number: 155595-93-0

Molecular Formula: C₃₁H₂₈N₂O₆

Molecular Weight: 524.572

Accurate Mass: 524.194738

Percentage Composition: C 70.98%; H 5.38%; N 5.34%; O 18.30%

Biological Source: Isol. from roots of *Aglaia odorata* and twigs of *Aglaia duppereana* (Meliaceae)

Biological Use/Importance: Protein synthesis inhibitor

Physical Description: Plates (CH₂Cl₂/MeOH)

Melting Point: Mp 256-257°

Optical Rotation: [α]_D²⁰-50.1 (c, 0.41 in CHCl₃)

UV: [neutral] λ_{max} 215 (ε 50000); 234 (ε 19000); 272 (ε 6000) (EtOH) (Derep)

>>Derivative: 5a''',N^{6'''}-Didehydro, 7-O-de-Me

Synonym(s): Marikarin

Molecular Formula: C₃₀H₂₆N₂O₆

Molecular Weight: 510.545

Accurate Mass: 510.179088

Percentage Composition: C 70.58%; H 5.13%; N 5.49%; O 18.80%

Biological Source: Alkaloid from *Aglaia gracilis*

Physical Description: Oil

Optical Rotation: [α]_D²⁰-45 (c, 0.3 in CHCl₃)

UV: [neutral] λ_{max} 273 () (MeOH)

>>Derivative: 3'-Hydroxy, 5a''',N^{6'''}-didehydro

Synonym(s): Didehydro-3'-hydroxyaglaiastatin

CAS Registry Number: 259143-58-3

Molecular Formula: C₃₁H₂₈N₂O₇

Molecular Weight: 540.571

Accurate Mass: 540.189653

Percentage Composition: C 68.88%; H 5.22%; N 5.18%; O 20.72%

Biological Source: Isol. from *Aglaia duperreana*