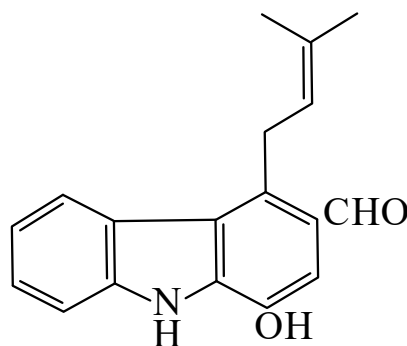




>>Entry Name: Clausine D

Synonym(s): 1-Hydroxy-4-(3-methyl-2-butenyl)-9*H*-carbazole-3-carboxaldehyde. 3-Formyl-1-hydroxy-4-prenylcarbazole



CAS Registry Number: 142846-95-5

Molecular Formula: C₁₈H₁₇NO₂

Molecular Weight: 279.338

Accurate Mass: 279.125929

Percentage Composition: C 77.40%; H 6.13%; N 5.01%; O 11.46%

Biological Source: Alkaloid from stem bark of *Clausena excavata* (Rutaceae)

Use/Importance: Exhibits significant antiplatelet aggregation activity

Physical Description: Brown powder

Melting Point: Mp 300°

UV: [base] λ_{max} (solvent not reported) (Derep) [neutral] λ_{max} 225 (ε 18600); 242 (ε 21400); 253 (sh) (ε 18600); 276 (ε 25100); 289 (ε 19100); 351 (ε 10000) (possibly MeOH, not reported) (Derep)

>>Derivative: Me ether

Synonym(s): Ekeberginine. 1-Methoxy-4-(3-methyl-2-butenyl)-9*H*-carbazole-3-carboxaldehyde, 9Cl. 3-Formyl-1-methoxy-4-prenylcarbazole

CAS Registry Number: 101242-43-7

Molecular Formula: C₁₉H₁₉NO₂

Molecular Weight: 293.365

Accurate Mass: 293.141579

Percentage Composition: C 77.79%; H 6.53%; N 4.77%; O 10.91%

Biological Source: Alkaloid from the stem bark of *Eckbergia senegalensis* (Meliaceae)

Melting Point: Mp 230-231°

Other Data: Spectral data reported refer to the *N*-Me deriv.

>>Derivative: Me ether, *N*-Me

Molecular Formula: C₂₀H₂₁NO₂

Molecular Weight: 307.391

Accurate Mass: 307.157229

Percentage Composition: C 78.15%; H 6.89%; N 4.56%; O 10.41%

Melting Point: Mp 155-157°

>>Derivative: Carboxylic acid, Me ester

Synonym(s): Clausine F

CAS Registry Number: 142846-96-6

Molecular Formula: C₁₉H₁₉NO₃

Molecular Weight: 309.364

Accurate Mass: 309.136494

Percentage Composition: C 73.77%; H 6.19%; N 4.53%; O 15.52%

Biological Source: Alkaloid from the stem bark of *Clausena excavata* (Rutaceae)

Use/Importance: Exhibits significant antiplatelet aggregation activity

Physical Description: Powder

Melting Point: Mp 200-202°

UV: [base] λ_{max} (solvent not reported) (Derep) [neutral] λ_{max} 225 (sh) (ε 20400); 244 (sh) (ε 28200); 251 (sh) (ε 28800); 269 (ε 38900); 313 (ε 7950); 323 (ε 7240); 340 (ε 5890) (possibly MeOH, not reported) (Derep)