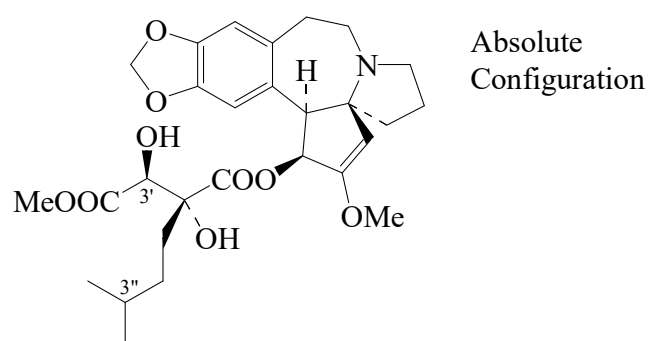




>>Entry Name: Isoharringtonine



CAS Registry Number: 26833-86-3

Molecular Formula: C₂₈H₃₇NO₉

Molecular Weight: 531.602

Accurate Mass: 531.246834

Percentage Composition: C 63.26%; H 7.02%; N 2.63%; O 27.09%

Biological Source: Alkaloid from *Cephalotaxus harringtonia* var. *harringtonia*, *Cephalotaxus harringtonia* var. *drupacea*, *Cephalotaxus hainanensis*, *Cephalotaxus wilsoniana* and *Cephalotaxus sinensis* (Cephalotaxaceae)

Biological Use/Importance: Shows significant antineoplastic activity

Melting Point: Mp 69-72.5°

Optical Rotation: [α]_D -99.6 (c, 1.06 in CHCl₃)

Calculated Log P Data: Log P 1.04 (uncertain value) (calc)

UV: [neutral] $\lambda_{\max}$ 261 (ϵ 724); 290 (ϵ 4570) (EtOH) (Derep)

Sigma: I7134

>>Derivative: Parent acid

Synonym(s): Isoharringtonic acid. 5'-Des-*O*-methylisoharringtonine

CAS Registry Number: 55825-71-3

Molecular Formula: C₂₇H₃₅NO₉

Molecular Weight: 517.575

Accurate Mass: 517.231184

Percentage Composition: C 62.66%; H 6.82%; N 2.71%; O 27.82%

Biological Source: Alkaloid from *Cephalotaxus hainanensis* (Cephalotaxaceae) and *Cephalotaxus harringtonia* var. *drupacea*

Physical Description: Amorph. solid

Melting Point: Mp 224-228°

Optical Rotation: [α]_D -113 (c, 0.33 in DMSO)

>>Derivative: 3"-Hydroxy

Synonym(s): Cephalezomine C

CAS Registry Number: 288300-74-3

Molecular Formula: C₂₈H₃₇NO₁₀

Molecular Weight: 547.601

Accurate Mass: 547.241749

Percentage Composition: C 61.41%; H 6.81%; N 2.56%; O 29.22%

Biological Source: Alkaloid from *Cephalotaxus harringtonia* var. *nana*

Biological Use/Importance: Cytotoxic agent

Physical Description: Amorph. solid

Optical Rotation: [α]_D -122 (c, 2.3 in MeOH)

UV: [neutral] $\lambda_{\max}$ 291 (ϵ 2100) (MeOH)

>>Derivative: 3'-Epimer, 3"-hydroxy

Synonym(s): Cephalezomine D

CAS Registry Number: 182325-75-3