



Molecular Formula: C₁₈H₁₇NO₅
Molecular Weight: 327.336
Accurate Mass: 327.110674
Percentage Composition: C 66.05%; H 5.23%; N 4.28%; O 24.44%
Biological Source: Isol. from the fronds of *Athyrium filix-femina*
Physical Description: Light yellow powder
Optical Rotation: $[\alpha]_D^{20} -20$ (c, 0.7 in MeOH)

>>Derivative: *N*-Me

CAS Registry Number: 2566-30-5

Molecular Formula: C₁₀H₁₃NO₂
Molecular Weight: 179.218
Accurate Mass: 179.094629
Percentage Composition: C 67.02%; H 7.31%; N 7.82%; O 17.85%
Biological Source: Component of Staphylomycin factor S
Melting Point: Mp 260 subl.[°] (243-246[°] dec.)
Optical Rotation: $[\alpha]_D^{20} 0$ (c, 0.5 in H₂O). $[\alpha]_D^{20} +21.8$ (c, 0.9 in 1M HCl)
Sigma: M9515

>>Derivative: *N*-Me, *N*-*tert*-butyloxycarbonyl

CAS Registry Number: 37553-65-4
Molecular Formula: C₁₅H₂₁NO₄
Molecular Weight: 279.335
Accurate Mass: 279.147059
Percentage Composition: C 64.50%; H 7.58%; N 5.01%; O 22.91%
Physical Description: Cryst. (EtOAc/hexane)
Melting Point: Mp 85[°]
Optical Rotation: $[\alpha]_D^{20} -84.9$ (c, 1 in MeOH)

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

CAS Registry Number: 2899-07-2
Molecular Formula: C₁₈H₁₉NO₄
Molecular Weight: 313.352
Accurate Mass: 313.131409
Percentage Composition: C 69.00%; H 6.11%; N 4.47%; O 20.42%
Physical Description: Cryst. (EtOAc/hexane)
Melting Point: Mp 67-71[°]
Optical Rotation: $[\alpha]_D^{28} -67$ (c, 1.8 in EtOH)

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

Synonym(s): *N,N*-Dimethylphenylalanine

CAS Registry Number: 17469-89-5

Molecular Formula: C₁₁H₁₅NO₂
Molecular Weight: 193.245
Accurate Mass: 193.110279
Percentage Composition: C 68.37%; H 7.82%; N 7.25%; O 16.56%
Biological Source: Hydrol. prod. of Canthiumine [BBW96-C](#)
Aldrich: 27391-0
Fluka: 41389

>>Derivative: *N,N,N*-Tri-Me, betaine

Synonym(s): α -Carboxy-*N,N,N*-trimethylbenzeneethanaminium, 9Cl. α -Trimethyl- β -phenylpropiobetaine. Phenylalanine betaine

CAS Registry Number: 125982-49-2

Molecular Formula: C₁₂H₁₇NO₂
Molecular Weight: 207.272
Accurate Mass: 207.125929
Percentage Composition: C 69.54%; H 8.27%; N 6.76%; O 15.44%
Biological Source: Isol. from latex and bark of *Antiaris africana*
Melting Point: Mp 240-242 dec.[°]