



Molecular Formula: C₆H₁₄N₂O₂
Molecular Weight: 146.189
Accurate Mass: 146.105528
Percentage Composition: C 49.30%; H 9.65%; N 19.16%; O 21.89%
Biological Source: Present in *Atropa belladonna*
Use/Importance: Alkaloid precursor

>>Derivative: N⁵-Me; hydrochloride

CAS Registry Number: 37149-01-2
Melting Point: Mp 252°
Optical Rotation: [α]_D²⁵+34.3 (c, 0.5 in 6M HCl)

>>Derivative: N⁵-Tri-Me
Synonym(s): 4-Amino-4-carboxy-*N,N,N*-trimethyl-1-butanaminium. N⁵-Trimethylornithine

CAS Registry Number: 66101-16-4

Molecular Formula: C₈H₁₈N₂O₂
Molecular Weight: 174.242
Accurate Mass: 174.136828
Percentage Composition: C 55.15%; H 10.41%; N 16.08%; O 18.36%
Biological Source: Constit. of the red alga *Vidalia volubilis*
Other Data: Zwitterionic. Config. of nat. prod. not confirmed

>>Derivative: N⁵-Tri-Me, N²-Ac
Synonym(s): 4-(Acetylamino)-4-carbonyl-*N,N,N*-trimethyl-1-butanaminium. N²-Acetyl-N⁵-trimethylornithine

CAS Registry Number: 147427-23-4

Molecular Formula: C₁₀H₂₀N₂O₃
Molecular Weight: 216.28
Accurate Mass: 216.147393
Percentage Composition: C 55.53%; H 9.32%; N 12.95%; O 22.19%
Biological Source: Constit. of the red alga *Digenea simplex*
Optical Rotation: [α]_D²⁵+16 (c, 0.43 in H₂O)
Other Data: Zwitterion

>>Derivative: N-Hexa-Me
Synonym(s): Miokinine

Molecular Formula: C₁₁H₂₅N₂O₂⁽⁺⁾
Molecular Weight: 217.331
Accurate Mass: 217.191603
Percentage Composition: C 60.79%; H 11.59%; N 12.89%; O 14.72%
Biological Source: Isol. from mammalian muscle

>>Variant: (±)-form

CAS Registry Number: 616-07-9
Molecular Formula: C₅H₁₂N₂O₂
Molecular Weight: 132.162
Accurate Mass: 132.089878
Percentage Composition: C 45.44%; H 9.15%; N 21.20%; O 24.21%
pKa Value: pK_{a1} 1.71; pK_{a2} 8.69; pK_{a3} 10.76 (25°)

>>Derivative: Hydrochloride

CAS Registry Number: 1069-31-4
Physical Description: Cryst. (EtOH aq.)
Melting Point: Mp 225°
Fluka: 75490
Sigma: O2250