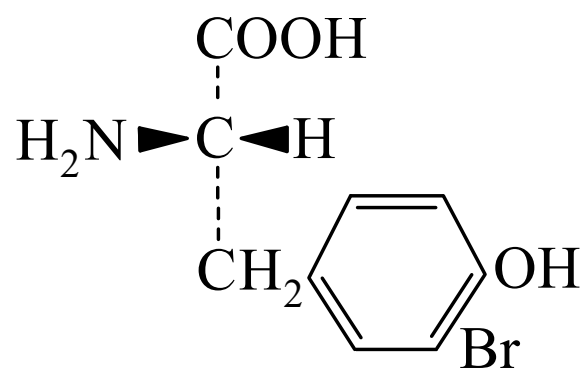




>>Entry Name: 2-Amino-3-(3-bromo-4-hydroxyphenyl)propanoic acid

Synonym(s): 3-Bromotyrosine. Monobromotyrosine



Molecular Formula: C₉H₁₀BrNO₃

Molecular Weight: 260.087

Accurate Mass: 259.004405

Percentage Composition: C 41.56%; H 3.88%; Br 30.72%; N 5.39%; O 18.45%

>>Variant: (S)-form

Synonym(s): L-form

CAS Registry Number: 38739-13-8

Molecular Formula: C₉H₁₀BrNO₃

Molecular Weight: 260.087

Accurate Mass: 259.004405

Percentage Composition: C 41.56%; H 3.88%; Br 30.72%; N 5.39%; O 18.45%

Biological Source: Isol. from gorgonians and molluscs, may occur in blood serum

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

CAS Registry Number: 153343-24-9

Extra CAS Registry Numbers(s): 165329-91-9

Molecular Formula: C₁₂H₁₆BrNO₃

Molecular Weight: 302.167

Accurate Mass: 301.051355

Percentage Composition: C 47.70%; H 5.34%; Br 26.44%; N 4.64%; O 15.88%

Biological Source: Isol. from *Pseudoceratina crassa*

Optical Rotation: [α]_D²⁵ -15 (MeOH)

Solubility: BERDY SOL: Sol. H₂O, MeOH

UV: [neutral] $\lambda_{\max}$ 287 (ϵ 1260) (H₂O) [neutral] $\lambda_{\max}$ 287 (ϵ 1275) (H₂O) (Berdy) [base] $\lambda_{\max}$ 307 (ϵ 1994) (pH 10 buffer) (Berdy)

>>Derivative: 4-Me ether, *N,N,N*-tri-Me, betaine

CAS Registry Number: 153343-23-8

Extra CAS Registry Numbers(s): 165329-90-8

Molecular Formula: C₁₃H₁₈BrNO₃

Molecular Weight: 316.194

Accurate Mass: 315.067005

Percentage Composition: C 49.38%; H 5.74%; Br 25.27%; N 4.43%; O 15.18%

Biological Source: Isol. from *Pseudoceratina crassa*

Optical Rotation: [α]_D -9 (MeOH)

Solubility: BERDY SOL: Sol. H₂O, MeOH

UV: [neutral] $\lambda_{\max}$ 277 (ϵ 1260) (H₂O) [neutral] $\lambda_{\max}$ 277 (ϵ 1260) (H₂O) (Berdy)

>>Variant: (±)-form

CAS Registry Number: 54788-30-6

Molecular Formula: C₉H₁₀BrNO₃

Molecular Weight: 260.087

Accurate Mass: 259.004405

Percentage Composition: C 41.56%; H 3.88%; Br 30.72%; N 5.39%; O 18.45%

Melting Point: Mp 245-246°

References: