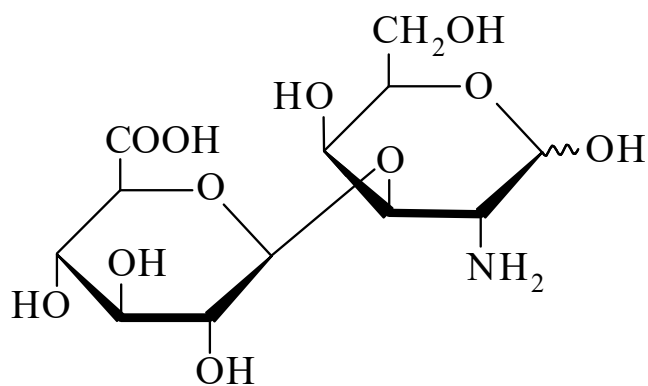




>>Entry Name: Chondrosine

Synonym(s): 2-Amino-2-deoxy-3-O-β-D-glucopyranuronosyl-D-galactose, 9CI



CAS Registry Number: 499-14-9

Molecular Formula: C₁₂H₂₁NO₁₁

Molecular Weight: 355.298

Accurate Mass: 355.111464

Percentage Composition: C 40.57%; H 5.96%; N 3.94%; O 49.53%

Biological Source: Disaccharide unit of chondroitin 4-sulphate and 6-sulphate

Physical Description: Cryst. (EtOH)

Optical Rotation: $[\alpha]_D^{20} +39$ (c, 1.0 in H₂O)

Other Data: Darkens at 185° but does not melt

Sigma: C4634

>>Derivative: Me ester

Molecular Formula: C₁₃H₂₃NO₁₁

Molecular Weight: 369.325

Accurate Mass: 369.127114

Percentage Composition: C 42.28%; H 6.28%; N 3.79%; O 47.65%

Physical Description: Cryst. (EtOH) as hydrochloride

Melting Point: Mp 159-161°

Optical Rotation: $[\alpha]_D^{23} +42$ (c, 2.0 in H₂O)

References:

Davidson, E.A. *et al.*, *J.A.C.S.*, 1954, **76**, 5686, (*isol*)

Takanashi, S. *et al.*, *J.A.C.S.*, 1962, **84**, 3029, (*synth*)

Senma, M. *et al.*, *Chem. Lett.*, 1974, 1415, (*abs config*)