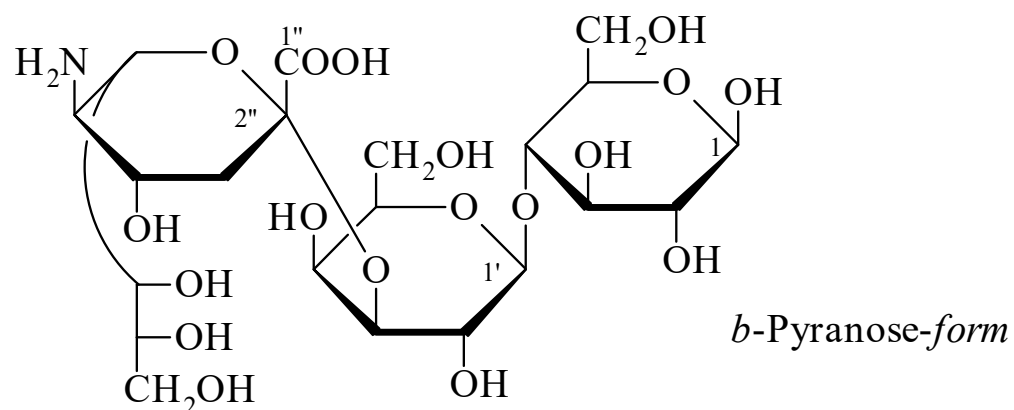




>>Entry Name: α -D-Neuraminopyranosyl-(2 $\rightarrow$ 3)- β -D-galactopyranosyl-(1 $\rightarrow$ 4)-D-glucose

Synonym(s): 5-Amino-3,5-dideoxy-D-glycero- α -D-galacto-2-nonulopyranosonosyl-(2 $\rightarrow$ 6)- β -D-galactopyranosyl-(1 $\rightarrow$ 4)-D-glucose, 9CI



Related CAS Registry Numbers(s): 70472-21-8

Molecular Formula: $C_{21}H_{37}NO_{18}$

Molecular Weight: 591.519

Accurate Mass: 591.201069

Percentage Composition: C 42.64%; H 6.30%; N 2.37%; O 48.69%

Source/Synthesis: Occurs in bovine colostrum, human urine and in *Hematoside*, a sialosyl ceramide isol. from horse erythrocytes

>>Variant: Pyranose-form

Molecular Formula: $C_{21}H_{37}NO_{18}$

Molecular Weight: 591.519

Accurate Mass: 591.201069

Percentage Composition: C 42.64%; H 6.30%; N 2.37%; O 48.69%

>>Derivative: *N*-Ac

CAS Registry Number: 35890-38-1

Molecular Formula: $C_{23}H_{39}NO_{19}$

Molecular Weight: 633.556

Accurate Mass: 633.211634

Percentage Composition: C 43.60%; H 6.20%; N 2.21%; O 47.98%

Physical Description: Amorph.

Optical Rotation: $[\alpha]_D +21.3$ (c, 0.62 in H_2O)

Fluka: 1385

Sigma: A9079

>>Variant: β -Pyranose-form

Molecular Formula: $C_{21}H_{37}NO_{18}$

Molecular Weight: 591.519

Accurate Mass: 591.201069

Percentage Composition: C 42.64%; H 6.30%; N 2.37%; O 48.69%

>>Derivative: Benzyl glycoside, 2,2',3,6,6'-pentabenzyl, *N*-Ac

CAS Registry Number: 96520-24-0

Molecular Formula: $C_{65}H_{75}NO_{19}$

Molecular Weight: 1174.303

Accurate Mass: 1173.493334

Percentage Composition: C 66.48%; H 6.44%; N 1.19%; O 25.89%

Physical Description: Syrup

Optical Rotation: $[\alpha]_D^{20} -7.1$ (c, 1.12 in MeOH)

>>Derivative: Benzyl glycoside, 2,2',3,6,6'-pentabenzyl, *N*-Ac, Me ester

CAS Registry Number: 102727-55-9

Molecular Formula: $C_{66}H_{77}NO_{19}$

Molecular Weight: 1188.33

Accurate Mass: 1187.508984

Percentage Composition: C 66.71%; H 6.53%; N 1.18%; O 25.58%

Physical Description: Syrup

Optical Rotation: $[\alpha]$