





























































Ligand	<i>K</i> _d	∆ G° calmol ⁻¹	∆H° calmol ⁻¹	T∆S° calmol ⁻¹	n
	43.3 ± 1.4 nM	-10,040 ± 20	-17,450 ± 30	-7,450 ± 30	1.00
Ŏ	14.8 ± 1.6 mM	-2,500 ± 70	-9,020 ± 480	-6,530 ± 480	0.94
~~	2.0 ± 0.2 mM	-3,670 ± 90	-4,350 ± 480	-690 ± 480	0.99
O	7.6 ± 0.8 mM	-2,890 ± 80	-10,150 ± 430	-7,270 ± 450	1.06
٠	0.21 ± 0.1 M	-920 ± 280	-10,700 ± 8,600	-9,770 ±8340	1.06
GM1os	pentasaccha	ride verv hic	nh affinity 📿	×	

Summary of ITC Results

Ligand	K _d	∆G°	∆H°	T∆S°	n			
_	-	calmol ⁻¹	calmol ⁻¹	calmol ⁻¹				
	43.3 ± 1.4 nM	-10,040 ± 20	-17,450 ± 30	-7,450 ± 30	1.00			
Big increase in affinity from Gal-GalNAc disaccharide to GM1 pentasaccharide								
œ	7.6 ± 0.8 mM	-2,890 ± 80	-10,150 ± 430	-7,270 ± 450	1.06			
♦	However, very similar $T\Delta S^{\circ}$ for the two ligands.							
	Contribution of sialic acid is totally enthaplic							
	Implies extra interactions with no loss of conformational entropy							











