

Fig.1

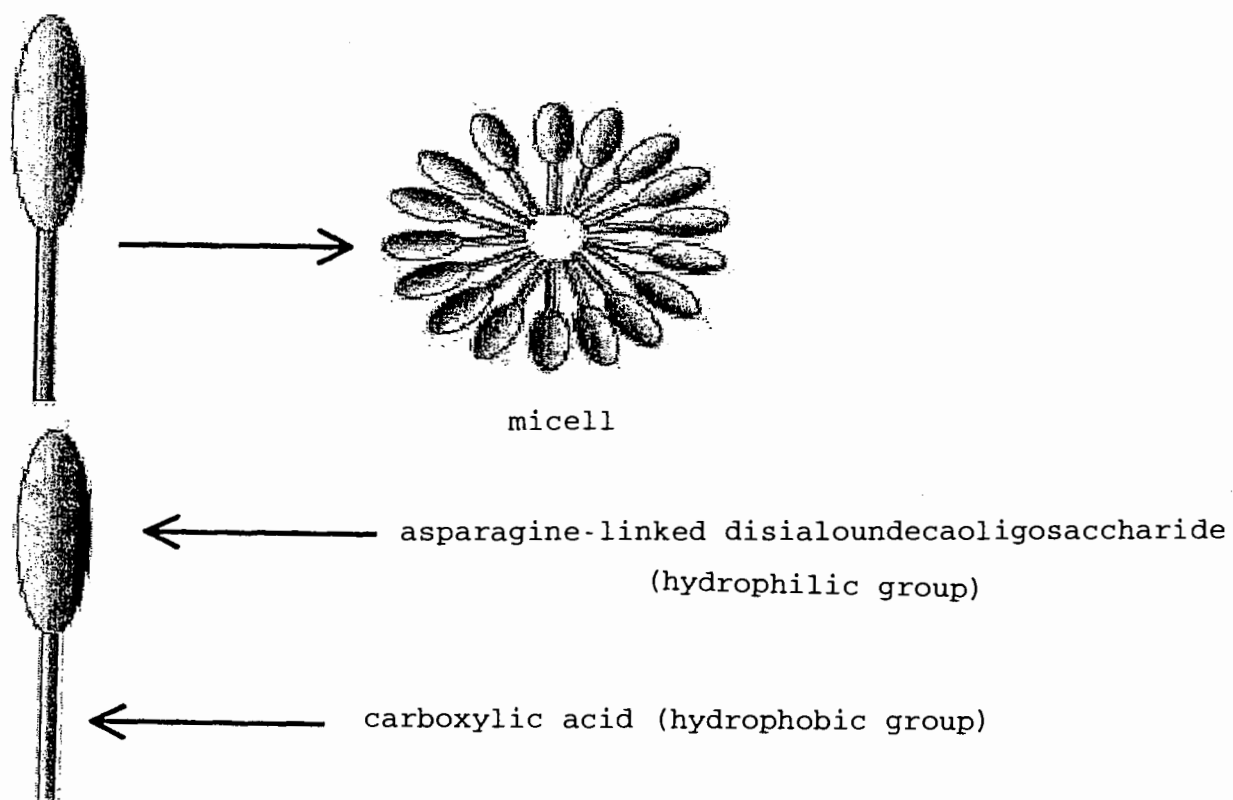
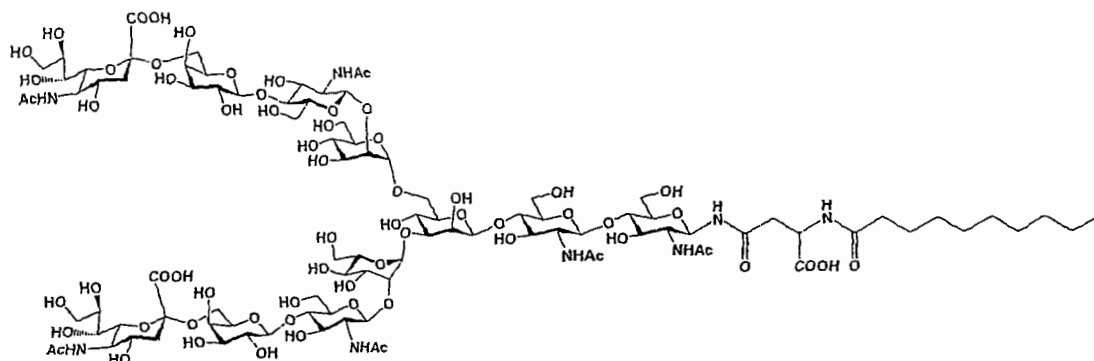
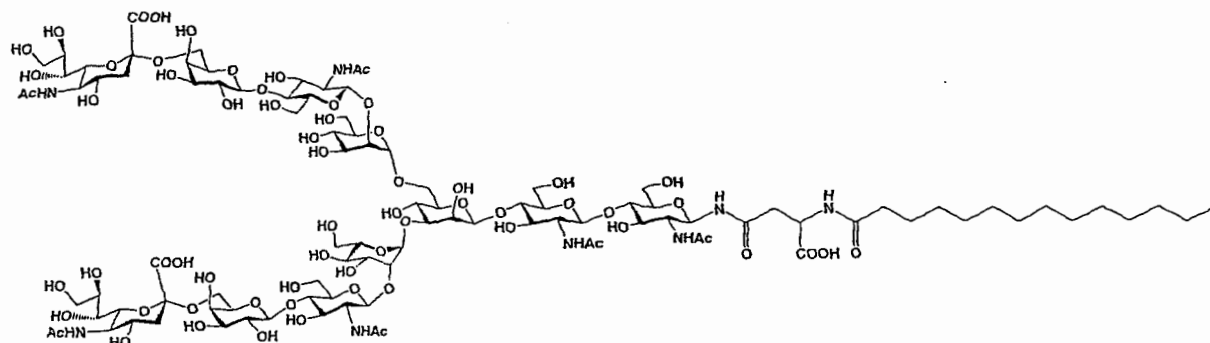


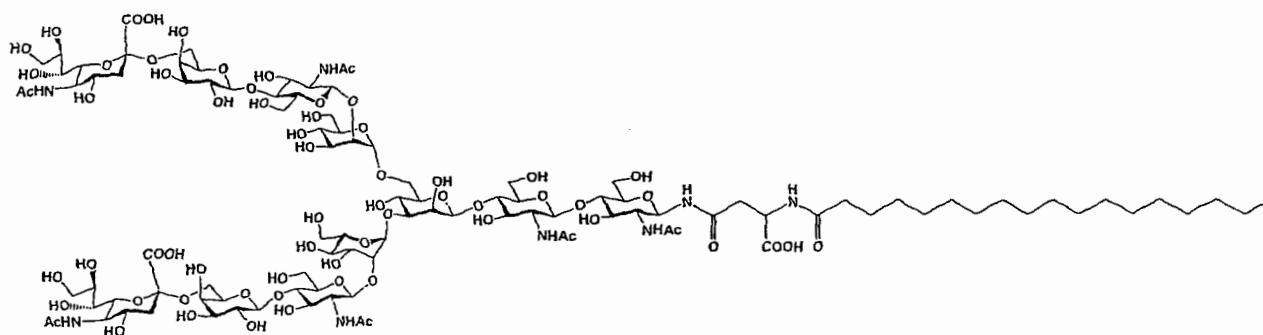
Fig.2



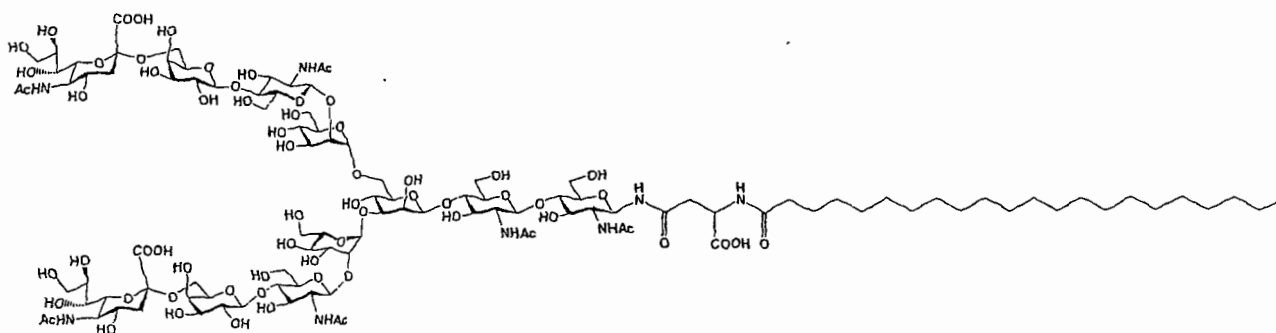
asparagine-linked disialoundecaoligosaccharide-decanoic acid amide 3



asparagine-linked disialoundecaoligosaccharide-myristic acid amide 4



asparagine-linked disialoundecaoligosaccharide-stearic acid amide 5



asparagine-linked disialoundecaoligosaccharide-behenic acid amide 6

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Fig.3

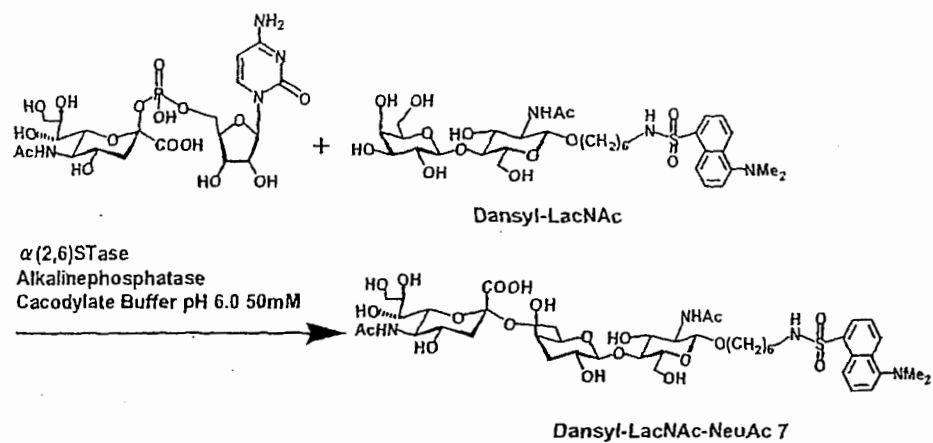
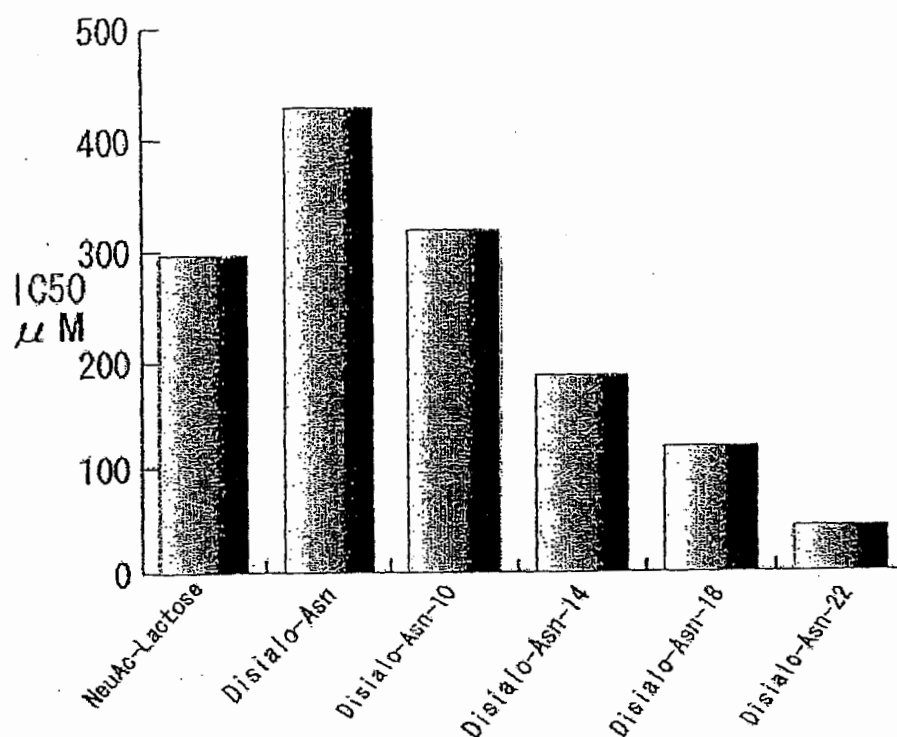


Fig.4

sialidase inhibition activity of each inhibitor  
against Dansyl- LacNAc-NeuAc  
(IC<sub>50</sub> based on the amount of sialic acid in each inhibitor)



#### abbreviation

NeuAc-Lactose : sialyl lactose

Disialo-Asn : asparagine-linked disialoundecaoligosaccharide 1

Disialo-Asn-10 : asparagine-linked disialoundecaoligosaccharide-decanoic acid amide 3

Disialo-Asn-14 : asparagine-linked disialoundecaoligosaccharide-myristic acid amide 4

Disialo-Asn-18 : asparagine-linked disialoundecaoligosaccharide-stearic acid amide 5

Disialo-Asn-22 : asparagine-linked disialoundecaoligosaccharide-behenic acid amide 6

#### IC<sub>50</sub> of each inhibitor

NeuAc-Lactose : 295.5 μM

Disialo-Asn : 428.3 μM

Disialo-Asn-10 : 318.5 μM

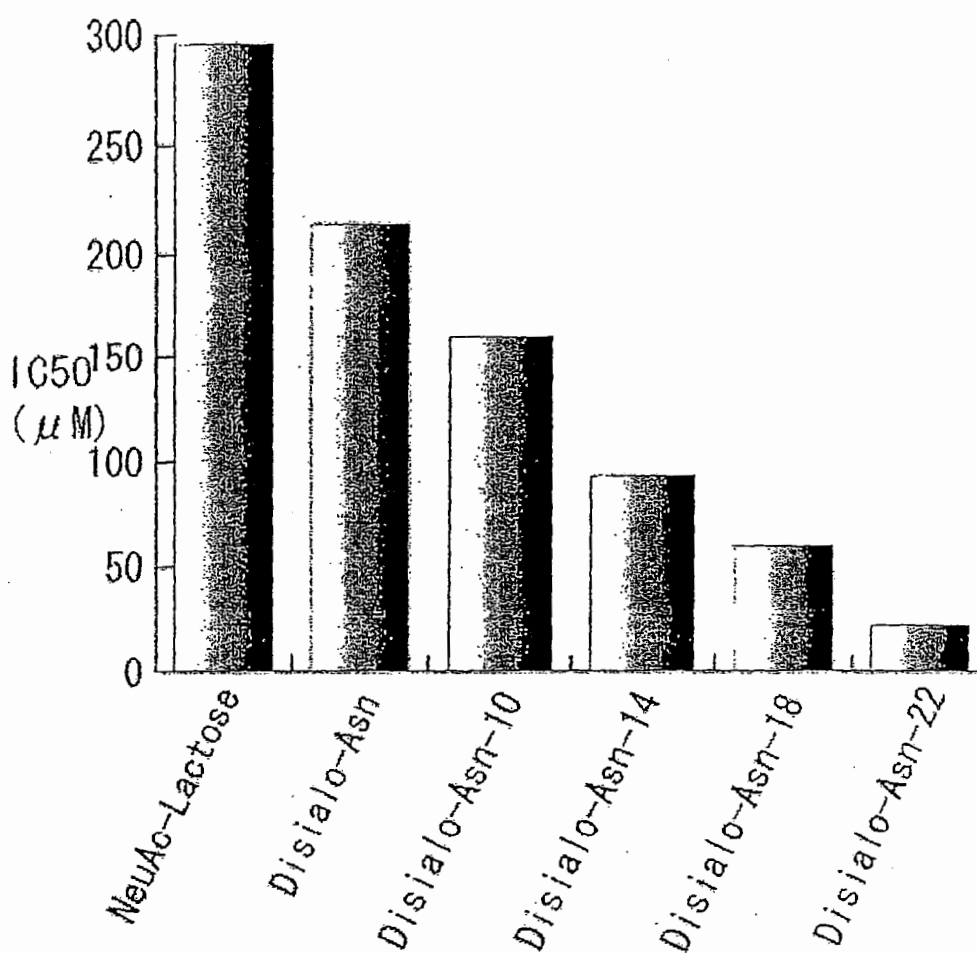
Disialo-Asn-14 : 186.4 μM

Disialo-Asn-18 : 117.9 μM

Disialo-Asn-22 : 42.9 μM

Fig.5

sialidase inhibition activity of each inhibitor  
against Dansyl- LacNAc-NeuAc  
(IC<sub>50</sub> based on the mole concentration of each inhibitor)



IC<sub>50</sub> of each inhibitor

|                           |                           |
|---------------------------|---------------------------|
| NeuAc-Lactose : 295.5 μ M | Disialo-Asn-14 : 93.2 μ M |
| Disialo-Asn : 214.2 μ M   | Disialo-Asn-18 : 58.9 μ M |
| Disialo-Asn-10 : 79.6 μ M | Disialo-Asn-22 : 21.5 μ M |