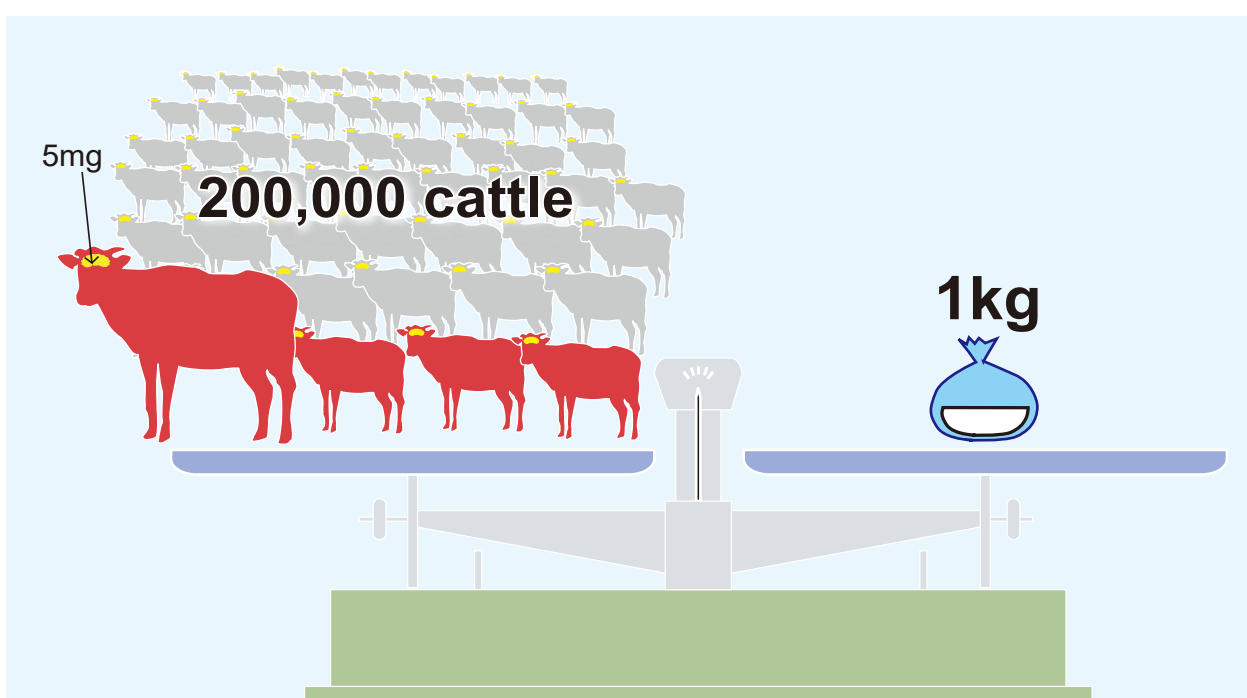


# Chemical Synthesis of the Gangliosides

Gangliosides are used by various researchers. However, it is difficult to obtain large amounts of gangliosides from natural sources.



In the case of the ganglioside GM<sub>1</sub> relevant to disease of cholera, Guillain-Barré syndrome, Alzheimer's disease, etc., only 5mg can be obtained from a bovine brain. In order to obtain 1kg of ganglioside GM<sub>1</sub>, 200,000 cattle are needed.

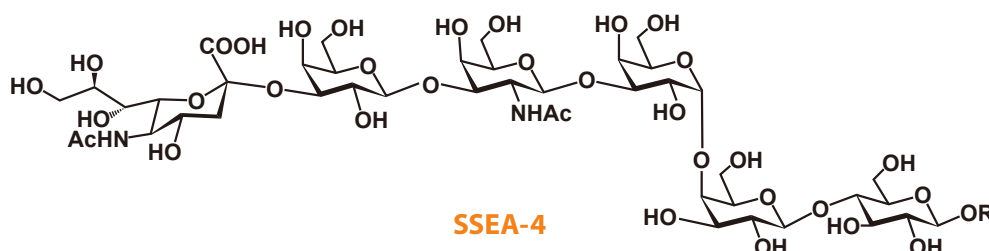
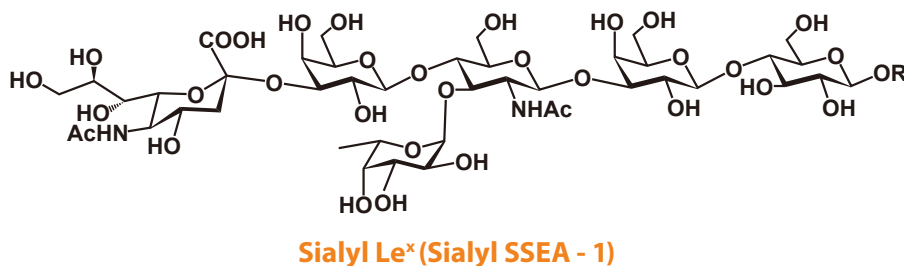
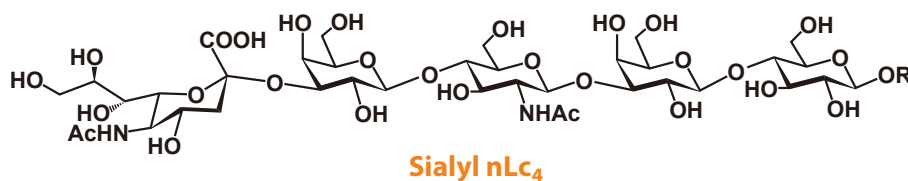
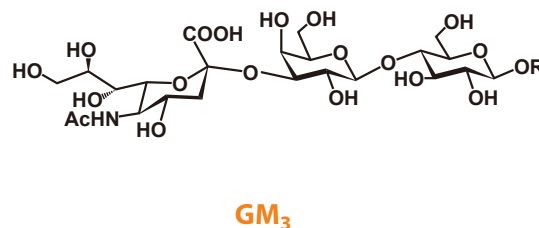
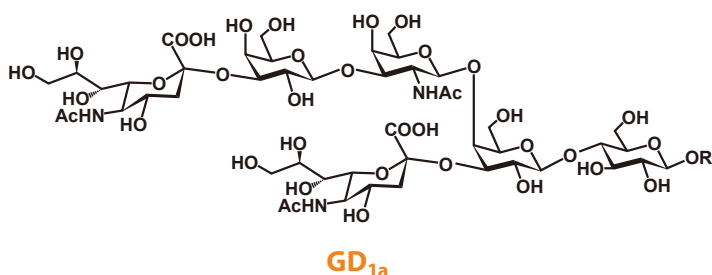
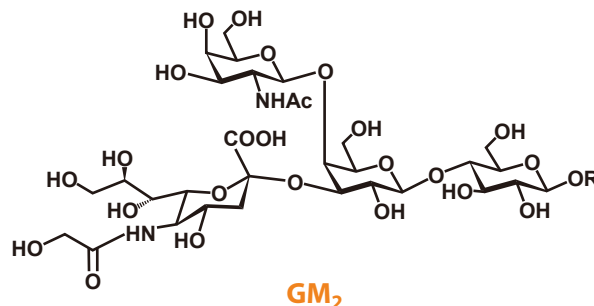
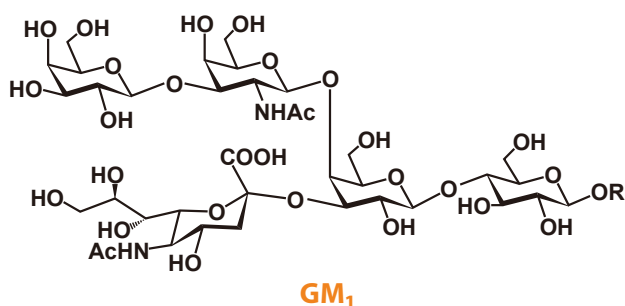
**We can synthesize various gangliosides using chemical methods.**

**TCI chemical synthesis technology allows getting available high pure sugar chains in large quantities.**

**Please contact us if you need sugar chains**

# Chemical Synthesis of the Ganglioside

TCl offers you various high-purity gangliosides such as ganglio/lacto/globo-series containing  $\alpha(2-3/6)$ -sialoside and Neu5Ac/Gc.



Feel free to contact us. Using advanced proprietary technologies, we synthesize a wide range of sugar chains for your daily research.

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