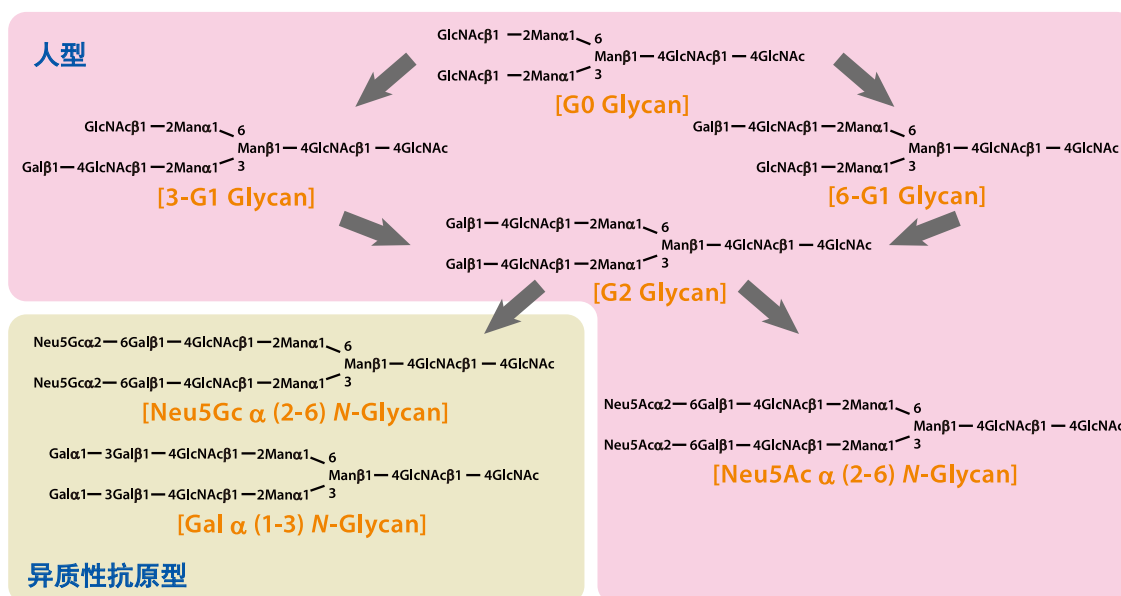


基于化学合成的 N-聚糖/标记N-聚糖

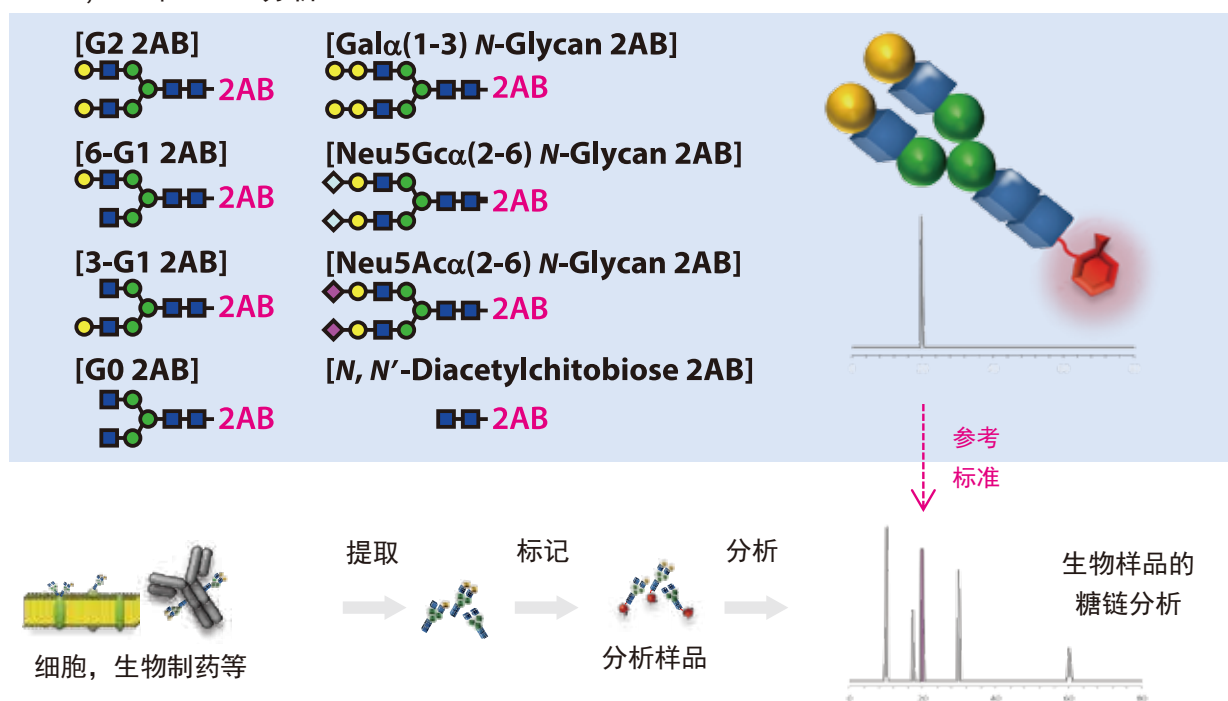
N-聚糖

使用各种糖砌块并基于化学合成的寡糖可提供各种结构定义的N-聚糖，比如人型聚糖（G0，G2和SG），均一异构体（每个G1和G1'）和异质性抗原（包括 α Gal或NeuGc）。

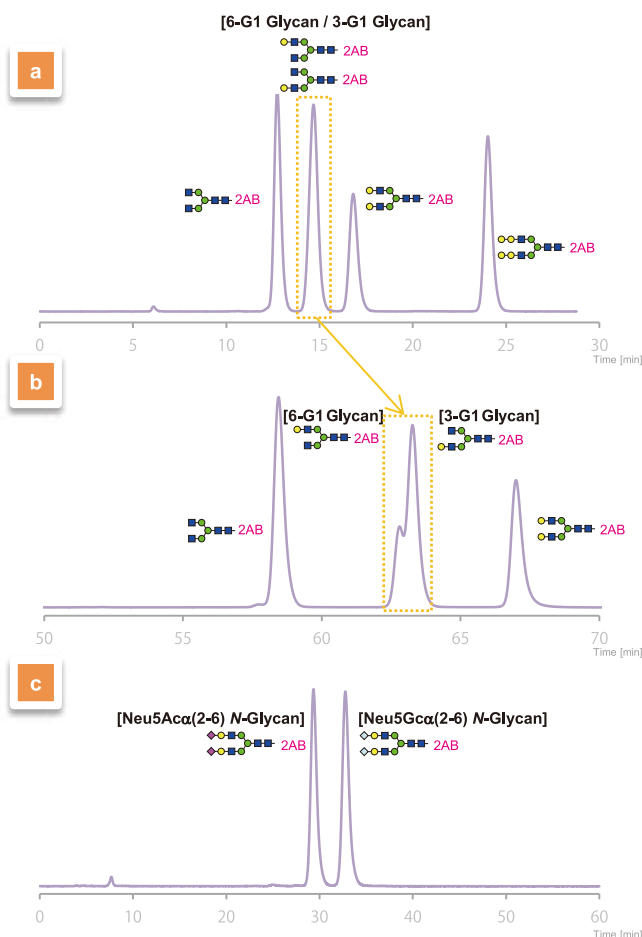


标记N-聚糖

我们生产高等级的2-AB标记N-聚糖。请使用我们的荧光标记产品组合作为标准糖，可用于MS，CE和HPLC分析。



2AB-标记聚糖的应用



【柱子】Asahipak NH2P-50 4E (Φ4.6×250 mm)

【检测】FL (Ex: 330 nm, Em: 420 nm)

【注射】5 μL (10 μg/mL 除了 5 μg/mL of 6-G1 2AB)

【流速】0.5 mL/min

【温度】40°C

【溶剂】A : Acetonitrile

B : 50 mM Ammonium formate (pH4.4)

【条件】

- | | | |
|-----|-----------|----------------------|
| (A) | 0~10 min | B: 40% |
| | 10~30 min | B: 40% — (变化率) → 50% |
| (B) | 0~20 min | B: 20% |
| | 20~60 min | B: 20% — (变化率) → 40% |
| | 60~80 min | B: 20% |
| (C) | 0~60 min | B: 100% |

(A) 标记的中性*N*-聚糖混合物是基于聚糖结构的独特特征而单独分离的。(但是, 每个G1异构体没有被分离。)

(B) 每个G1异构体; 6-G1和3-G1在这种条件下适度分离。

(C) 酸性*N*-聚糖; 由于唾液酸的最小差异, 异源抗原型 Neu5Gcα(2-6) *N*-聚糖从 Neu5Acα(2-6) *N*-聚糖中完全分离出来。

基于化学合成的*N*-聚糖/标记*N*-聚糖

G0484 G0 Glycan

G0485 3-G1 Glycan

G0486 6-G1 Glycan

G0487 G2 Glycan

N1065 Neu5Acα(2-6) *N*-Glycan

N1064 Neu5Gcα(2-6) *N*-Glycan

G0488 Galα(1-3) *N*-Glycan

G0490 G0 2AB

G0491 3-G1 2AB

G0492 6-G1 2AB

G0493 G2 2AB

N1073 Neu5Acα(2-6) *N*-Glycan 2AB

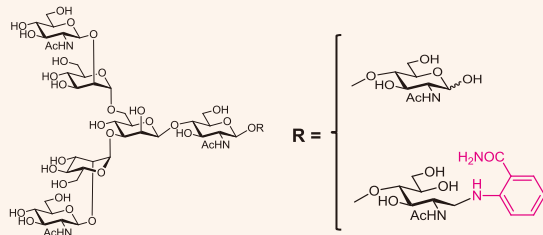
N1075 Neu5Gcα(2-6) *N*-Glycan 2AB

G0494 Galα(1-3) *N*-Glycan 2AB

D5327 *N,N'*-Diacetylchitobiose 2AB

部分产品已在多个协会组织的支持下实现了商业化。

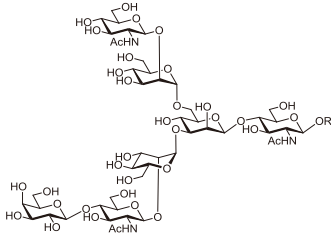
N-聚糖/标记N-聚糖



G0 glycan [G0484]



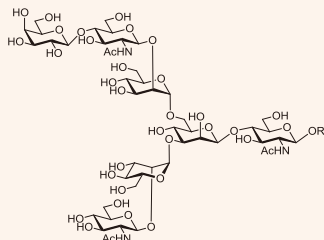
G0 2AB [G0490]



3-G1 Glycan [G0485]



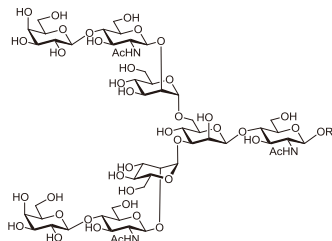
3-G1 2AB [G0491]



6-G1 Glycan [G0486]



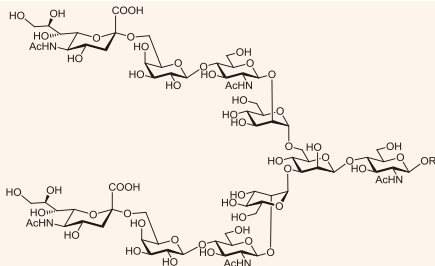
6-G1 2AB [G0492]



G2 Glycan [G0487]



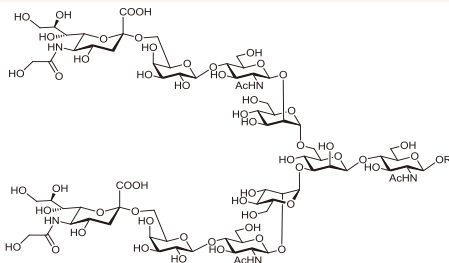
G2 2AB [G0493]



Neu5Ac α (2-6) N-Glycan [N1065]



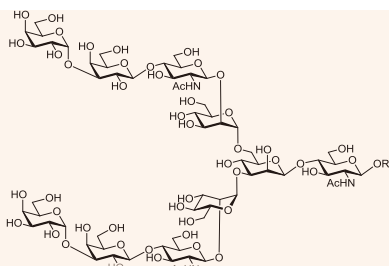
Neu5Ac α (2-6) N-Glycan 2AB [N1073]



Neu5Gc α (2-6) N-Glycan [N1064]



Neu5Gc α (2-6) N-Glycan 2AB [N1075]



Gal α (1-3) N-Glycan [G0488]

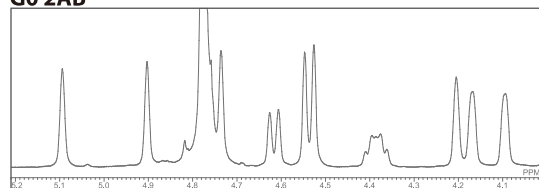


Gal α (1-3) N-Glycan 2AB [G0494]

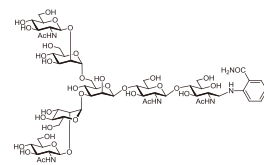


标记N-聚糖的NMR数据

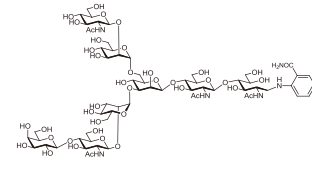
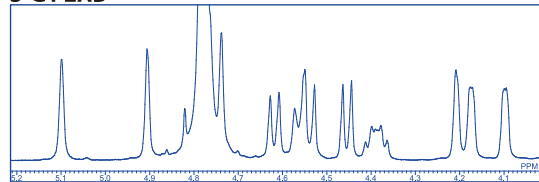
G0 2AB



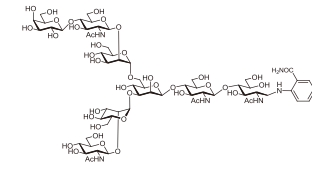
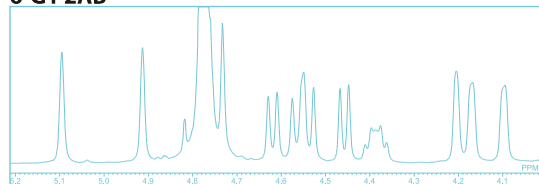
¹H NMR JEOL Ltd.
[溶剂] D₂O
[内标] *tert*-BuOH



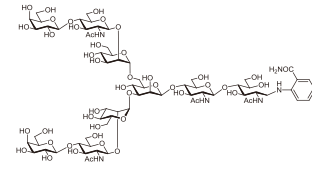
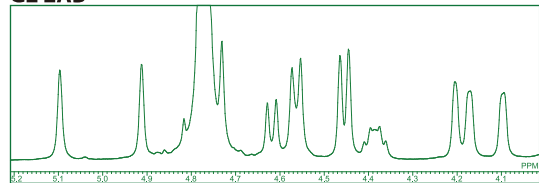
3-G1 2AB



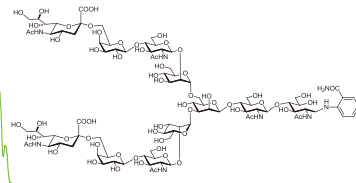
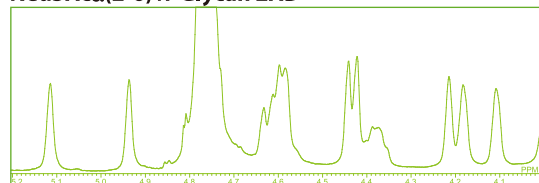
6-G1 2AB



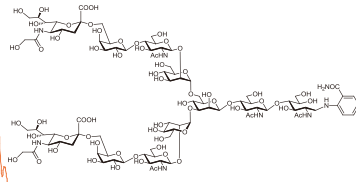
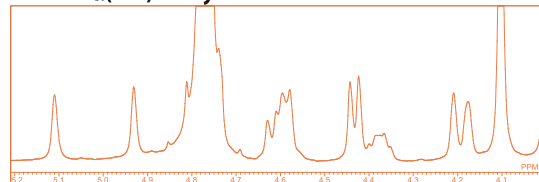
G2 2AB



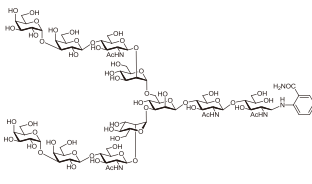
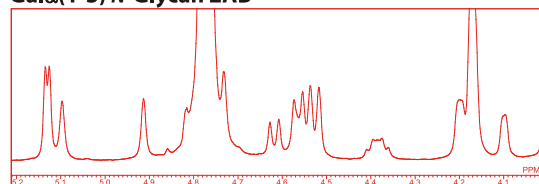
Neu5Ac α (2-6) N-Glycan 2AB



Neu5Gc α (2-6) N-Glycan 2AB



Gal α (1-3) N-Glycan 2AB



7.0

6.0

5.0

4.0

3.0

2.0

PPM

标记N-聚糖的MS / HPLC数据

MALDI-TOF Bruker Daltonics

[模式] Positive mode

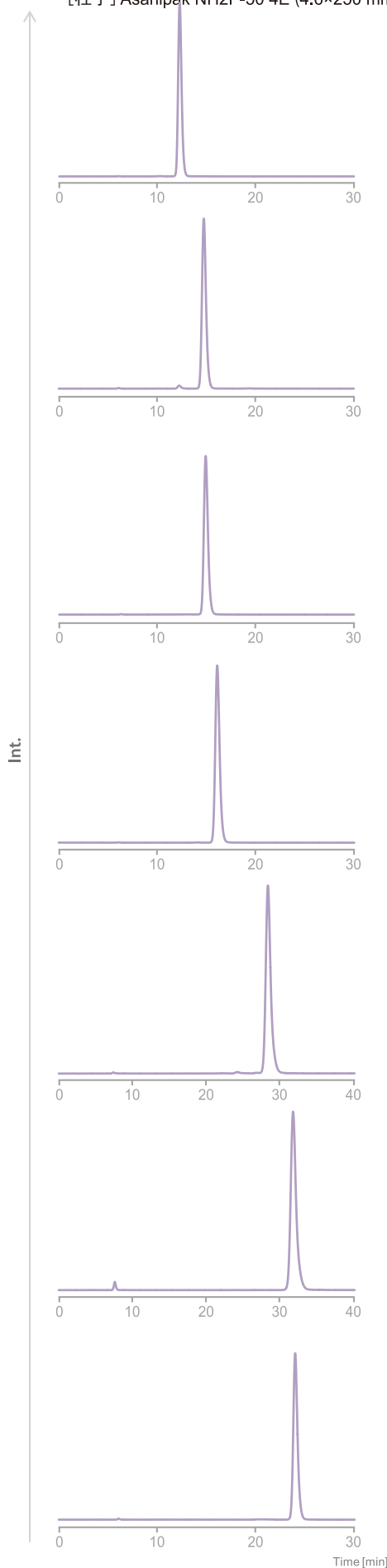
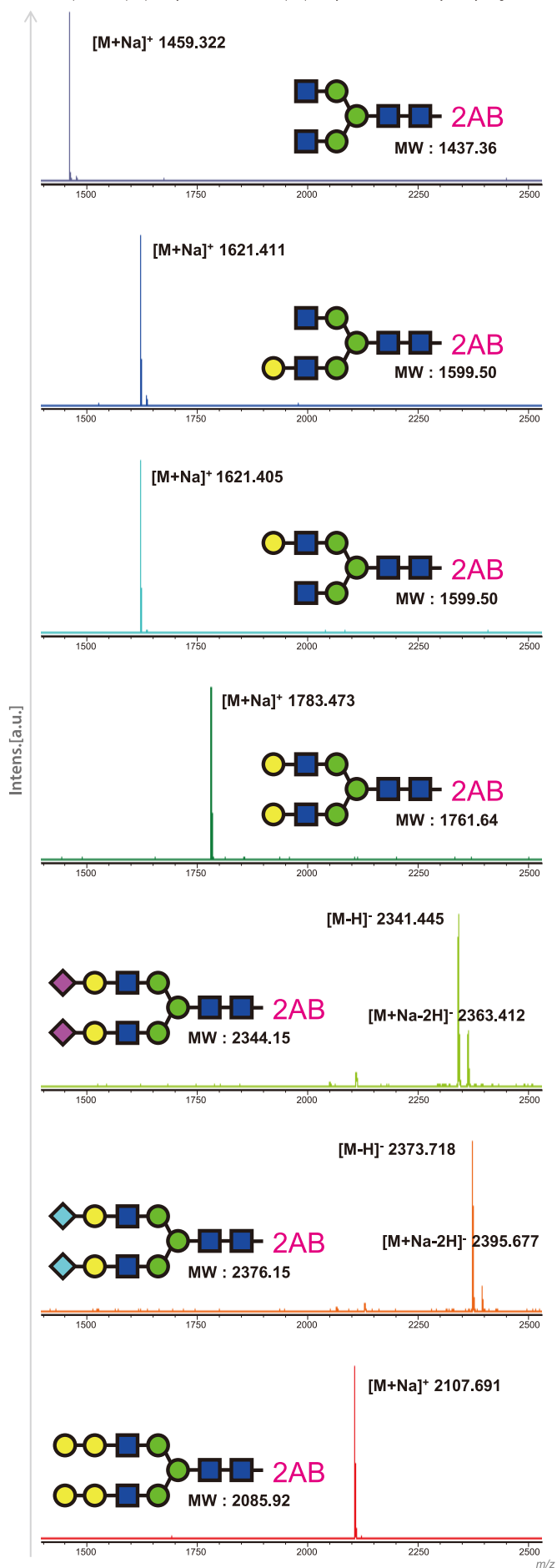
(Neu5Acα(2-6) N-Glycan 2AB, Neu5Gcα(2-6) N-Glycan 2AB were analyzed by Negative mode)

HPLC Hitachi Hightech

[检测] FL (Ex: 330 nm, Em: 420 nm)

[柱子] Asahipak NH2P-50 4E (4.6×250 mm)

HPLC 纯度 >95%

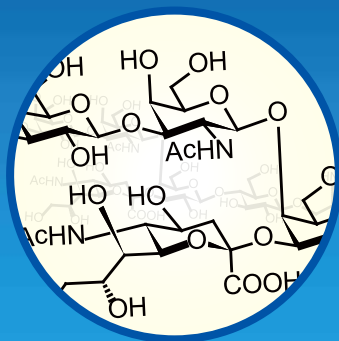


人型

异源抗原型

糖科学

糖链

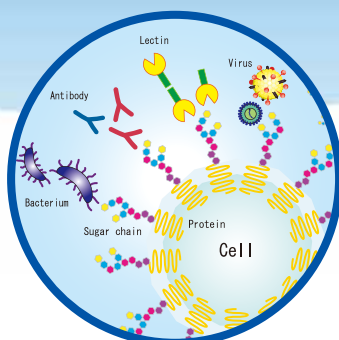


- 功能性寡糖
- 10~100kg规格的各种糖砌块
- 优质合成技术
- 糖缀合物的应用



酶

- 用于糖缀合物合成的内酶
- 糖水解酶及其底物



抗体&凝集素

- 用于糖脂和糖胺聚糖的抗体
- 岩藻糖特效凝集素
- 抗体和凝集素的修饰

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