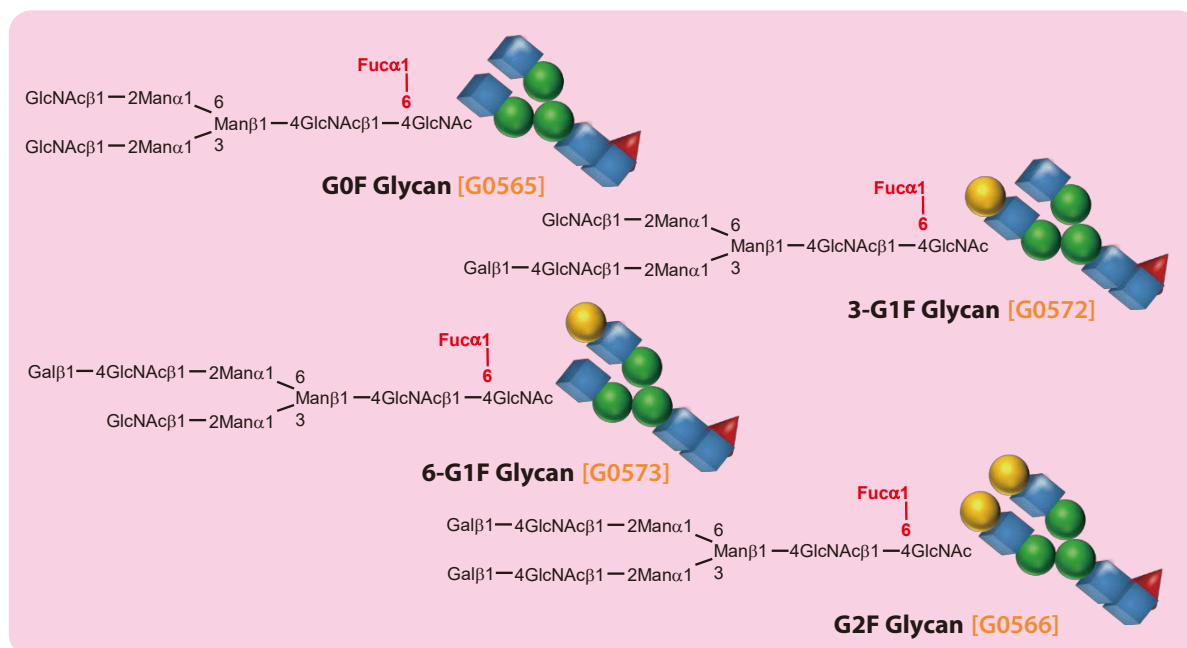


# Core-fucosylated N-Glycan and Labeled Core-fucosylated N-Glycan based on Chemical Synthesis

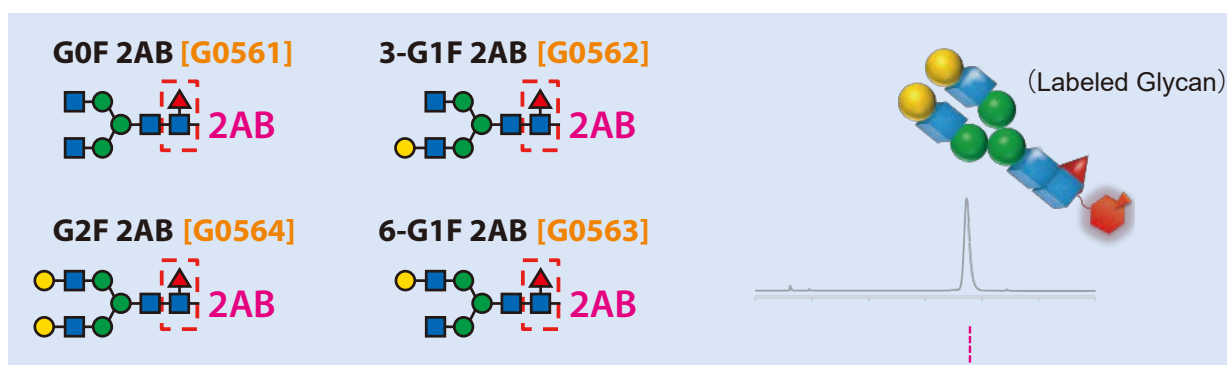
## Core-fucosylated N-Glycan

Our chemical synthesis of oligosaccharide using various sugar building blocks provides human type N-glycans (G0, uniform isomers 3-G1 and 6-G1, and G2) with a core fucose bound to a position 6 of the reducing terminal  $\beta$ -N-acetylglucosamine.

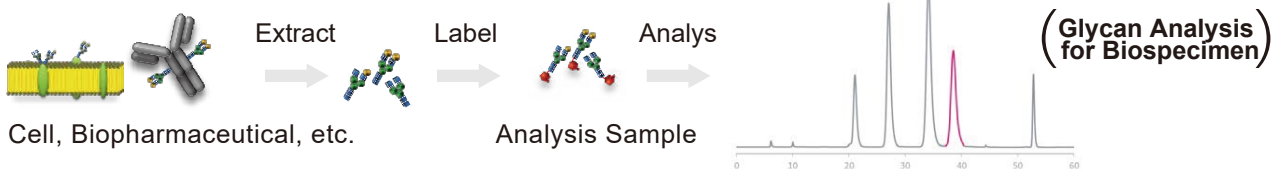


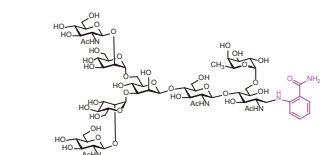
## Labeled Core-fucosylated N-Glycan

We produce high grade 2-AB labeled core-fucosylated N-glycans. Please take advantage of our fluorescent-labeled products as a standard glycan for MS, CE and HPLC analyses of biopharmaceuticals including antibody drugs.

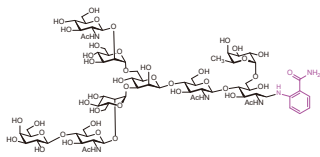
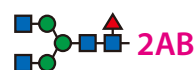


### <Analysis of Biological Samples>

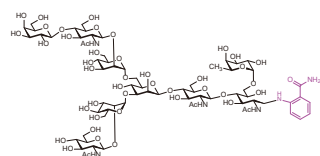




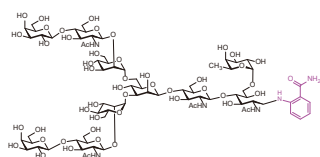
G0F 2AB [G0561]



3-G1F 2AB [G0562]



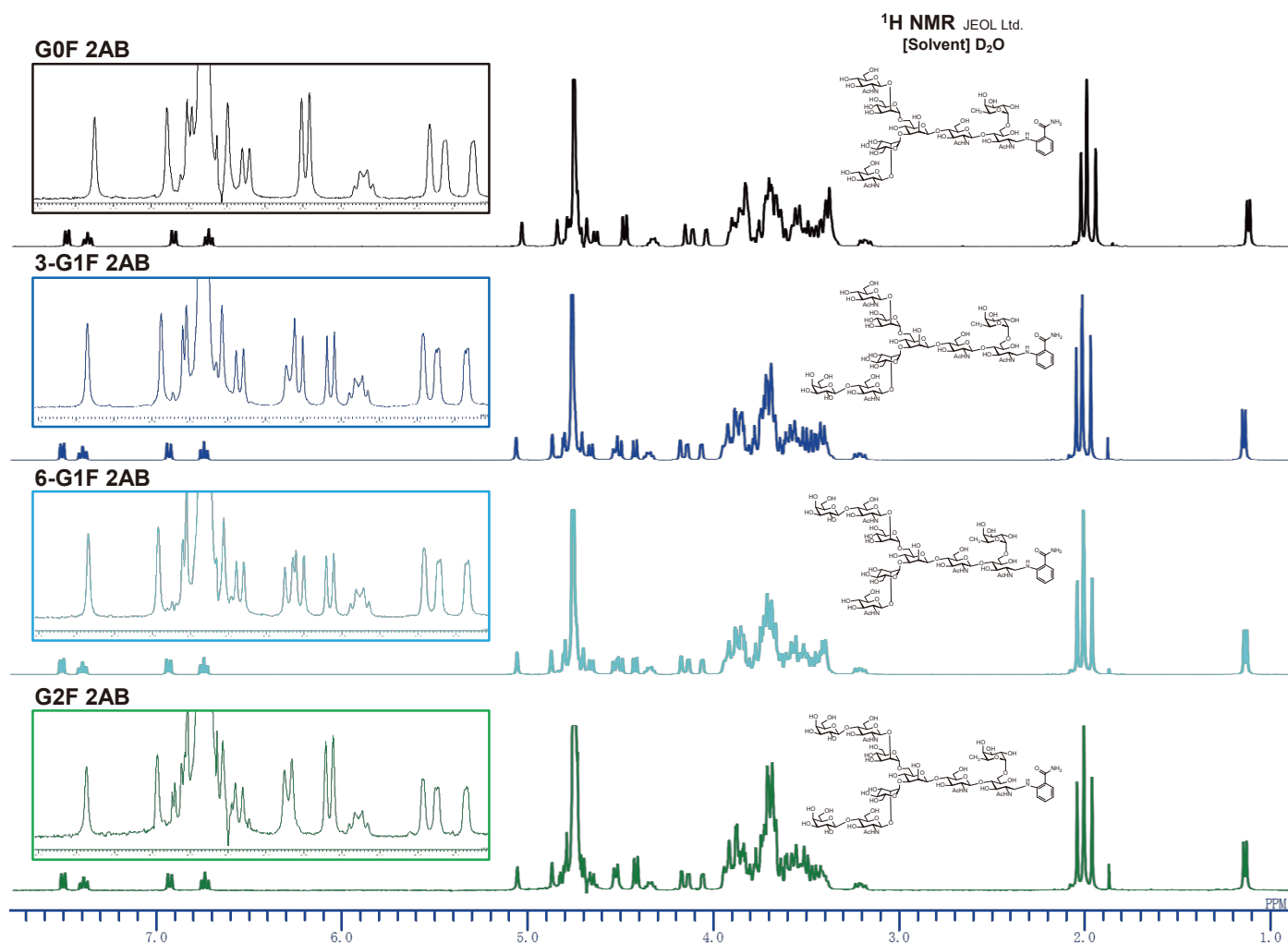
6-G1F 2AB [G0563]



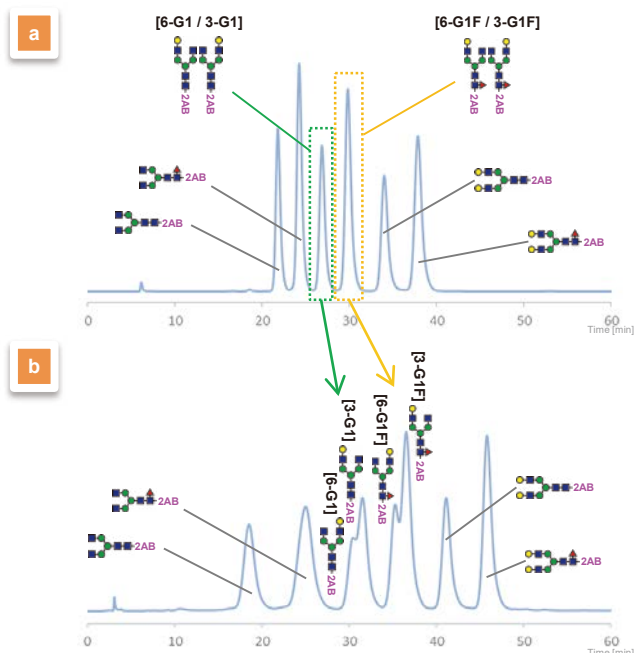
G2F 2AB [G0564]



## NMR Data of Labeled Core-fucosylated N-Glycan



# and Labeled Core-fucosylated N-Glycan based on Chemical Synthesis



[Column] Asahipak NH2P-50 4E (Φ4.6×250 mm)  
 [Detection] FL (Ex: 330 nm, Em: 420 nm)  
 [Temp.] 40°C  
 [Solvent] A : Acetonitrile B : 50 mM Ammonium formate (pH4.4)

(a) [Inject] Each 20 pmol of G0F 2AB, G1F 2AB and G2F 2AB  
 Each 10 pmol of G0 2AB, G1 2AB and G2 2AB  
 [Condition] 0~60 min B:35% [Flow rate] 0.5 mL/min

(b) [Inject] Each 10 pmol of G0F 2AB, 3-G1F 2AB and G2F 2AB  
 Each 5 pmol of G0 2AB, 3-G1 2AB, 6-G1F 2AB and G2 2AB  
 2.5 pmol of 6-G1 2AB  
 [Condition] 0~10 min B:35% [Flow rate] 1.0 mL/min  
 10~50 min B:35%-(gradient)→ 40% 0.25 mL/min  
 50~60 min B:35% 1.0 mL/min

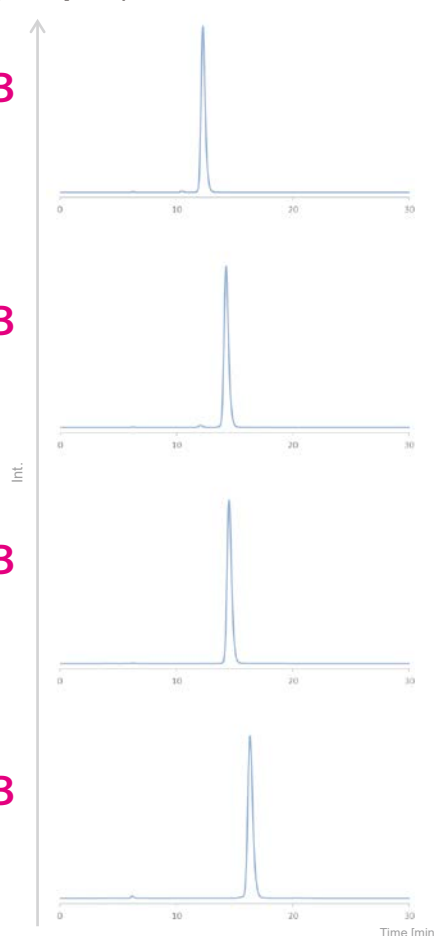
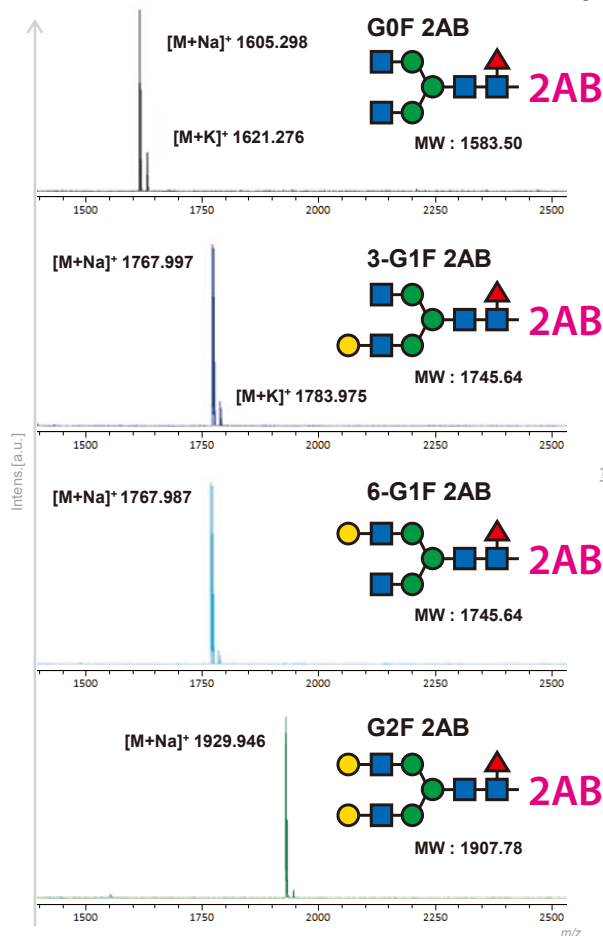
- (a) The labeled N-glycan mixture was separated based on the distinctive features of glycan structure. (However, G1 and G1F isomers were not individually separated.)  
 (b) The G1 isomers (3-G1 and 6-G1) and G1F isomers (3-G1F and 6-G1F) are modestly detached in this condition.

## MS / HPLC Data of Labeled Core-fucosylated N-Glycan

MALDI-TOF-MS Bruker DaltonicsK.K.  
 [Mode] Positive mode

HPLC Hitachi Hightech  
 [Detection] FL (Ex: 330 nm, Em: 420 nm)  
 [Column] Asahipak NH2P-50 4E (4.6 × 250 mm)

HPLCpurity > 95%



# Core-fucosylated *N*-Glycan and Labeled Core-fucosylated *N*-Glycan based on Chemical Synthesis

## Labeled Core-fucosylated *N*-Glycan

<b>G0F 2AB</b>	[G0561]
<b>3-G1F 2AB</b>	[G0562]
<b>6-G1F 2AB</b>	[G0563]
<b>G2F 2AB</b>	[G0564]

Each packing unit is 500pmol/vial

## Core-fucosylated *N*-Glycan

<b>G0F Glycan</b>	[G0565]
<b>3-G1F Glycan</b>	[G0572]
<b>6-G1F Glycan</b>	[G0573]
<b>G2F Glycan</b>	[G0566]

Please contact us

## Related Products

### Labeled *N*-Glycan

<b>G0 2AB</b>
<b>3-G1 2AB</b>
<b>6-G1 2AB</b>
<b>G2 2AB</b>
<b>Neu5A<math>\alpha</math>(2-6) <i>N</i>-Glycan 2AB</b>
<b>Neu5G<math>\alpha</math>(2-6) <i>N</i>-Glycan 2AB</b>
<b>Gal<math>\alpha</math>(1-3) <i>N</i>-Glycan 2AB</b>

### *N*-Glycan

[G0490] <b>G0 Glycan</b>	[G0484]
[G0491] <b>3-G1 Glycan</b>	[G0485]
[G0492] <b>6-G1 Glycan</b>	[G0486]
[G0493] <b>G2 Glycan</b>	[G0487]
[N1073] <b>Neu5A<math>\alpha</math>(2-6) <i>N</i>-Glycan</b>	[N1065]
[N1075] <b>Neu5G<math>\alpha</math>(2-6) <i>N</i>-Glycan</b>	[N1064]
[G0494] <b>Gal<math>\alpha</math>(1-3) <i>N</i>-Glycan</b>	[G0488]

Each packing unit is 500pmol/vial

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