

Glycan Type	Subtype	ID	Name	Structure
Monosaccharide (6)		CA1	D-Glucose	Glc
		CA2	D-GlcNAc	GlcNAc
		CA3	D-Galactose	Gal
		CA4	D-GalNAc	GalNAc
		CA5	D-Mannose	Man
		CA6	L-Fucose	Fuc
Blood Group and Lewis Antigens (15)		CA7	Lewis A trisaccharide	Galβ1-3(Fuca1-4)GlcNAc
		CA8	Lewis B tetrasaccharide	Fuca1-2Galβ1-3(Fuca1-4)GlcNAc
		CA9	Lewis X trisaccharide	Galβ1-4(Fuca1-3)GlcNAc
		CA10	Lewis Y pentasaccharide	Fuca1-2Galβ1-4(Fuca1-3)GlcNAcβ1-3Gal
		CA11	3'-Sialyl Lewis A	Neu5Acα2-3Galβ1-3(Fuca1-4)GlcNAc
		CA12	3'-Sialyl Lewis X	Neu5Acα2-3Galβ1-4(Fuca1-3)GlcNAc
		CA13	3'-Sulfated Lewis A	(3S)Galβ1-3(Fuca1-4)GlcNAc
		CA14	3'-Sulfated Lewis X	(3S)Galβ1-4(Fuca1-3)GlcNAc
		CA15	Blood Group A pentasaccharide type I	GalNAcα1-3(Fuca1-2)Galβ1-3GlcNAcβ1-3Gal
		CA16	Blood group A pentasaccharide type II	GalNAcα1-3(Fuca1-2)Galβ1-4GlcNAcβ1-3Gal
		CA17	Blood Group A tetrasaccharide type VI	GalNAcα1-3(Fuca1-2)Galβ1-4Glc
		CA18	Blood group B hexasaccharide type I	Galα1-3(Fuca1-2)Galβ1-3GlcNAcβ1-3Galβ1-4Glc
		CA19	Blood group B hexasaccharide type II	Galα1-3(Fuca1-2)Galβ1-4GlcNAcβ1-3Galβ1-4Glc
		CA20	Blood Group H type I trisaccharide	Fuca1-2Galβ1-3GlcNAc
		CA21	Blood Group H type II trisaccharide	Fuca1-2Galβ1-4GlcNAc
GSL Glycans (19)		CA22	Gangliotetraose	Galβ1-3GalNAcβ1-4Galβ1-4Glc
		CA23	GM1	Galβ1-3GalNAcβ1-4(Neu5Acα2-3)Galβ1-4Glc
		CA24	Fucosyl GM1	Fuca1-2Galβ1-3GalNAcβ1-4(Neu5Acα2-3)Galβ1-4Glc
		CA25	GM2	Neu5Acα2-3GalNAcβ1-4Galβ1-4Glc
		CA26	GD1a	Neu5Acα2-3Galβ1-3GalNAcβ1-4(Neu5Acα2-3)Galβ1-4Glc
		CA27	GD1b	Neu5Acα2-8Neu5Acα2-3(Galβ1-3GalNAcβ1-4)Galβ1-4Glc
		CA28	GD2	Neu5Acα2-8Neu5Acα2-3(GalNAcβ1-4)Galβ1-4Glc
		CA29	GD3	Neu5Acα2-8Neu5Acα2-3Galβ1-4Glc
		CA30	GT1a	Neu5Acα2-8Neu5Acα2-3Galβ1-3GalNAcβ1-4(Neu5Acα2-3)Galβ1-4Glc
		CA31	GT1c	Galβ1-3GalNAcβ1-4(Neu5Acα2-8Neu5Acα2-8Neu5Acα2-3)Galβ1-4Glc
		CA32	GT2	GalNAcβ1-4(Neu5Acα2-8Neu5Acα2-8Neu5Acα2-3)Galβ1-4Glc
		CA33	GT3	Neu5Acα2-8Neu5Acα2-8Neu5Acα2-3Galβ1-4Glc
		CA34	Forsman antigen pentaoase	GalNAcα1-3GalNAcβ1-3Galα1-4-Galβ1-4Glc
		CA35	Globo-H hexaoase	Fuca1-2Galβ1-3GalNAcβ1-3Galα1-4Galβ1-4Glc
		CA36	Globotriose, Gb3	Galα1-4Galβ1-4Glc
		CA37	Globo-N tetraose, Gb4	GalNAcβ1-3Galα1-4Galβ1-4Glc
		CA38	Globosotetraose	GalNAcβ1-3Galα1-3Galβ1-4Glc
		CA39	Globopentaose (SSEA-3)	Galβ1-3GalNAcβ1-3Galα1-4Galβ1-4Glc
		CA40	SSEA-4 hexaoase	Neu5Acα2-3Galβ1-3GalNAcβ1-3Galα1-4Galβ1-4Glc
	HMO (15)		CA41	Lactose
		CA42	2'-Fucosyllactose	Fuca1-2Galβ1-4Glc
		CA43	3-Fucosyllactose	Galβ1-4(Fuca1-3)Glc
		CA44	3'-Sialyllactose	Neu5Acα2-3Galβ1-4Glc
		CA45	6'-Sialyllactose	Neu5Acα2-6Galβ1-4Glc
		CA46	3'-α-Sialyl-N-acetyllactosamine	Neu5Acα2-3Galβ1-4GlcNAc
		CA47	6'-α-Sialyl-N-acetyllactosamine	Neu5Acα2-6Galβ1-4GlcNAc
		CA48	Lacto-N-tetraose, LNT	Galβ1-3GlcNAcβ1-3Galβ1-4Glc
		CA49	Lacto-N-neotetraose, LNnT	Galβ1-4GlcNAcβ1-3Galβ1-4Glc
		CA50	Lacto-N-fucopentaose I	Fuca1-2Galβ1-3GlcNAcβ1-3Galβ1-4Glc
		CA51	Lacto-N-fucopentaose II	Galβ1-3(Fuca1-4)GlcNAcβ1-3Galβ1-4Glc
		CA52	Lacto-N-fucopentaose III	Galβ1-4(Fuca1-3)GlcNAcβ1-3Galβ1-4Glc
		CA53	1S-tetrasaccharide a (1STa)	Neu5Acα2-3Galβ1-3GlcNAcβ1-3Galβ1-4Glc
		CA54	1S-tetrasaccharide c (1STc)	Neu5Acα2-6Galβ1-4GlcNAcβ1-3Galβ1-4Glc
		CA55	Disialylacto-N-tetraose (DSLNT)	Neu5Acα2-3Galβ1-3(Neu5Acα2-6)GlcNAcβ1-3Galβ1-4Glc
Glycan (10)		CA56	Sophorose	Glcβ1-2Glc
		CA57	Gentiobiose	Glcβ1-6Glc
		CA58	Nigerose	Glcα1-3Glc
		CA59	Kojibiose	Glcα1-2Glc
		CA60	Laminaritriose	Glcβ1-3Glcβ1-3Glc
		CA61	Maltotetraose	Glcα1-4Glcα1-4Glcα1-4Glc
		CA62	Cellotetraose	Glcβ1-4Glcβ1-4Glcβ1-4Glc
		CA63	1,3:1,4 β-Glucotetraose	Glcβ1-4Glcβ1-3Glcβ1-4Glc
		CA64	6-α-D-Glucopyranosyl maltotriose	Glcα1-6Glcα1-4Glcα1-4Glc
		CA65	Isomaltotetraose	Glcα1-6Glcα1-6Glcα1-6Glc
		CA66	2-O-α-D-Glucopyranosyl-D-galactopyranose	Glcα1-2Gal
		CA67	2-O-(α-D-Galactopyranosyl)-D-galactopyranose	Galα1-2Gal
		CA68	2-O-(β-D-Galactopyranosyl)-D-galactopyranose	Galβ1-2Gal
		CA69	Lactose 3'-sulfate	(3S)Galβ1-4Glc

General Oligosaccharides (53)

CA70	3-O-(α-D-Galactopyranosyl)-D-galactopyranose	Galα1-3Gal
CA71	3-O-(α-D-Galactopyranosyl)-D-glucopyranose	Galα1-3Glc
CA72	3-O-(β-D-Galactopyranosyl)-D-galactopyranose	Galβ1-3Gal
CA73	3-O-(β-D-Galactopyranosyl)-D-glucopyranose	Galβ1-3Glc
CA74	4-O-(α-D-Galactopyranosyl)-D-galactopyranose	Galα1-4Gal
CA75	4-O-(α-D-Galactopyranosyl)-D-glucopyranose	Galα1-4Glc
CA76	4-O-(β-D-Galactopyranosyl)-D-galactopyranose	Galβ1-4Gal
CA77	4-O-(β-D-Galactopyranosyl)-D-mannopyranose	Galβ1-4Man
CA78	6-O-(α-D-Galactopyranosyl)-D-galactopyranose	Galα1-6Gal
CA79	6-O-(β-D-Galactopyranosyl)-D-galactopyranose	Galβ1-6Gal
CA80	6-O-(β-D-Galactopyranosyl)-D-glucopyranose	Galα1-6Glc
CA81	3-O-(β-D-Galactopyranosyl)-D-arabinose	Galβ1-3Ara
CA82	Rutinose	Rhaα1-6Glc
CA83	2-Acetamido-2-deoxy-3-O-(α-D-galactopyranosyl)-D-galactopyranose	Galα1-3GalNAc
CA84	2-Acetamido-2-deoxy-3-O-(α-L-fucopyranosyl)-D-glucopyranose	Fucoα1-3GlcNAc
CA85	2-Acetamido-2-deoxy-4-O-(α-D-galactopyranosyl)-D-glucopyranose	Galα1-4GlcNAc
CA86	N-Acetyl-D-lactosamine	Galβ1-4GlcNAc
CA87	2-Acetamido-2-deoxy-4-O-(α-L-fucopyranosyl)-D-glucopyranose	Fucoα1-4GlcNAc
CA88	2-Acetamido-2-deoxy-4-O-(β-D-galactopyranosyl)-6-sulfo-β-D-glucopyranose	Galβ1-4(6S)GlcNAc
CA89	2-Acetamido-2-deoxy-6-O-(α-L-fucopyranosyl)-D-glucopyranose	Fucoα1-6GlcNAc
CA90	2-Acetamido-2-deoxy-6-O-(β-D-galactopyranosyl)-D-galactopyranose	Galβ1-6GalNAc
CA91	2-Acetamido-3-O-(2-acetamido-2-deoxy-α-D-galactopyranosyl)-2-deoxy-D-galactopyranose	GalNAcα1-3GalNAc
CA92	2-O-(2-Acetamido-2-deoxy-β-D-glucopyranosyl)-D-mannopyranose	GlcNAcβ1-2Man
CA93	3-O-(2-Acetamido-2-deoxy-α-D-galactopyranosyl)-D-galactopyranose	GalNAcα1-3Gal
CA94	3-O-(2-Acetamido-2-deoxy-β-D-galactopyranosyl)-D-galactopyranose	GalNAcβ1-3Gal
CA95	3-O-(2-Acetamido-2-deoxy-β-D-glucopyranosyl)-D-mannopyranose	GlcNAcβ1-3Man
CA96	6'-Sulfated-N-acetyllactosamine	(6S)Galβ1-4GlcNAc
CA97	Galacto-N-biose	Galβ1-3GalNAc
CA98	3'-Sialylgalactose (GM4)	Neu5Acα2-3Galβ
CA99	6'-Sialylgalactose	Neu5Acα2-6Gal
CA100	3'-Sialylgalacto-N-biose	Neu5Acα2-3Galβ1-3GalNAc
CA101	3'-Galactosylactose	Galβ1-3Galβ1-4Glc
CA102	4'-Galactosylactose	Galβ1-4Galβ1-4Glc
CA103	6'-Galactosylactose	Galβ1-6Galβ1-4Glc
CA104	3a,4b-Galactotriose	Galα1-3Galβ1-4Gal
CA105	Galα1-3Galβ1-4Glc	Galα1-3Galβ1-4Glc
CA106	4-O-(6-O-(2-Acetamido-2-deoxy-β-D-glucopyranosyl)-β-D-galactopyranosyl)-D-glucopyranose	GlcNAcβ1-6Galβ1-4Glc
CA107	4-O-(3-O-(2-Acetamido-2-deoxy-α-D-galactopyranosyl)-β-D-galactopyranosyl)-D-glucose	GalNAcα1-3Galβ1-4Glc
CA108	1,2-α-1,2-α-L-Rhamnotriose	Rhaα1-2Rhaα1-2Rha
CA109	4'-O-(2-Acetamido-2-deoxy-3-O-(β-D-galactopyranosyl)-β-D-galactopyranosyl)-β-D-lactose	Galβ1-3GalNAcβ1-4Galβ1-4Glc
CA110	2-O-(α-D-Mannopyranosyl)-D-mannopyranose	Manα1-2Man
CA111	3-O-(α-D-Mannopyranosyl)-D-mannopyranose	Manα1-3Man
CA112	4-O-(α-D-Mannopyranosyl)-D-mannose	Manα1-4Man
CA113	6-O-(α-D-Mannopyranosyl)-D-mannose	Manα1-6Man
CA114	α-D-Galactosyl-mannotriose	Manβ1-4Manβ1-4(Galα1-6)Man
CA115	α1-3[α1-6]α1-6[α1-3]Mannopentaose	Manα1-6(Manα1-3)Manα1-6(Manα1-3)Man
CA116	1,4-b-D-Mannotetraose	Manβ1-4Manβ1-4Manβ1-4Man
CA117	1,4-b-D-Xylotetraose	Xylβ1-4Xylβ1-4Xylβ1-4Xyl
CA118	Xyloctaose	Xylβ1-4Xylβ1-4Xylβ1-4Xylβ1-4Xylβ1-4Xylβ1-4Xyl
Complex	CA119	Neu5Acα2-3Galβ1-4GlcNAcβ1-2Manα1-6(Neu5Acα2-3Galβ1-4GlcNAcβ1-2Manα1-3)Manβ1-4GlcNAcβ1-4GlcNAc
	CA120	Neu5Acα2-6Galβ1-4GlcNAcβ1-2Manα1-6(Neu5Acα2-6Galβ1-4GlcNAcβ1-2Manα1-3)Manβ1-4GlcNAcβ1-4GlcNAc
	CA121	Galβ1-4(Fucoα1-3)GlcNAcβ1-2Manα1-6(Galβ1-4)(Fucoα1-3)GlcNAcβ1-2Manα1-3)Manβ1-4GlcNAcβ1-4GlcNAc
	CA122	Neu5Acα2-3Galβ1-4(Fucoα1-3)GlcNAcβ1-2Manα1-6(Neu5Acα2-3Galβ1-4)(Fucoα1-3)GlcNAcβ1-2Manα1-3)Manβ1-4GlcNAcβ1-4GlcNAc
	CA123	Manα1-6(Manα1-3)Manα1-6(GlcNAcβ1-2Manα1-3)Manβ1-4GlcNAcβ1-4GlcNAc
Hybrid	CA124	Manα1-6(Manα1-3)Manα1-6(Galβ1-4GlcNAcβ1-2Manα1-3)Manβ1-4GlcNAcβ1-4GlcNAc
	CA125	Manα1-6(Manα1-3)Manα1-6(Neu5Acα2-3Galβ1-4GlcNAcβ1-2Manα1-3)Manβ1-4GlcNAcβ1-4GlcNAc
	CA126	Manα1-6(Manα1-3)Manα1-6(Neu5Acα2-6Galβ1-4GlcNAcβ1-2Manα1-3)Manβ1-4GlcNAcβ1-4GlcNAc
	CA127	Manα1-6(Manα1-3)Manα1-6(Galβ1-4)(Fucoα1-3)GlcNAcβ1-2Manα1-3)Manβ1-4GlcNAcβ1-4GlcNAc
	CA128	Manα1-6(Manα1-3)Manα1-6(Neu5Acα2-3Galβ1-4)(Fucoα1-3)GlcNAcβ1-2Manα1-3)Manβ1-4GlcNAcβ1-4GlcNAc
High-mannose	CA129	Man-5
	CA130	Man-6
	CA131	Man-7
	CA132	Man-8
	CA133	Man-9
Bisecting	CA134	GlcNAcβ1-2Manα1-6(GlcNAcβ1-4)GlcNAcβ1-2Manα1-3)Manβ1-4GlcNAcβ1-4GlcNAc
	CA135	Galβ1-4GlcNAcβ1-2Manα1-6(GlcNAcβ1-4)(Galβ1-4GlcNAcβ1-2Manα1-3)Manβ1-4GlcNAcβ1-4GlcNAc
	CA136	Neu5Acα2-3Galβ1-4GlcNAcβ1-2Manα1-6(GlcNAcβ1-4)(Neu5Acα2-3Galβ1-4GlcNAcβ1-2Manα1-3)Manβ1-4GlcNAcβ1-4GlcNAc
	CA137	Neu5Acα2-6Galβ1-4GlcNAcβ1-2Manα1-6(GlcNAcβ1-4)(Neu5Acα2-6Galβ1-4GlcNAcβ1-2Manα1-3)Manβ1-4GlcNAcβ1-4GlcNAc
	CA138	Galβ1-4(Fucoα1-3)GlcNAcβ1-2Manα1-6(GlcNAcβ1-4)(Galβ1-4)(Fucoα1-3)GlcNAcβ1-2Manα1-3)Manβ1-4GlcNAcβ1-4GlcNAc
	CA139	Neu5Acα2-3Galβ1-4(Fucoα1-3)GlcNAcβ1-2Manα1-6(GlcNAcβ1-4)(Neu5Acα2-3Galβ1-4)(Fucoα1-3)GlcNAcβ1-2Manα1-3)Manβ1-4GlcNAcβ1-4GlcNAc

N-glycan (28)

	Core-fucose	CA140		GlcNAc β 1-2Man α 1-6[GlcNAc β 1-2Man α 1-3]Man β 1-4GlcNAc β 1-4[Fuca1-6]GlcNAc-
		CA141		Man α 1-6[GlcNAc β 1-2Man α 1-3]Man β 1-4GlcNAc β 1-4[Fuca1-6]GlcNAc-
		CA142		Gal β 1-4GlcNAc β 1-2Man α 1-6[GlcNAc β 1-2Man α 1-3]Man β 1-4GlcNAc β 1-4[Fuca1-6]GlcNAc-
	LacNAc-extended	CA143		GlcNAc β 1-3Gal β 1-4GlcNAc β 1-2Man α 1-6[GlcNAc β 1-3Gal β 1-4GlcNAc β 1-2Man α 1-3]Man β 1-4GlcNAc β 1-4GlcNAc
		CA144		Gal β 1-4GlcNAc β 1-3Gal β 1-4GlcNAc β 1-2Man α 1-6[Gal β 1-4GlcNAc β 1-3Gal β 1-4GlcNAc β 1-2Man α 1-3]Man β 1-4GlcNAc β 1-4GlcNAc
		CA145		Neu5Ac α 2-3Gal β 1-4GlcNAc β 1-3Gal β 1-4GlcNAc β 1-2Man α 1-6[Neu5Ac α 2-3Gal β 1-4GlcNAc β 1-3Gal β 1-4GlcNAc β 1-2Man α 1-3]Man β 1-4GlcNAc β 1-4GlcNAc
Glycopeptide	CA146		Neu5Ac α 2-6Gal β 1-4GlcNAc β 1-2Man α 1-6[Neu5Ac α 2-6Gal β 1-4GlcNAc β 1-2Man α 1-3]Man β 1-4GlcNAc β 1-4GlcNAc-KVANIKT	
O-glycan (14)	Glycoamino acid	CA147	Tn antigen	GalNAc α -Thr
		CA148	STn antigen	Neu5Ac α 2-6GalNAc α -Thr
		CA149	Core 1 (T antigen)	Gal β 1-3GalNAc α -Thr
		CA150	ST antigen	Neu5Ac α 2-3Gal β 1-3GalNAc α -Ser
		CA151	Core 2	GlcNAc β 1-6[Gal β 1-3]GalNAc α -Thr
		CA152	Core 3	GlcNAc β 1-3GalNAc α -Thr
		CA153	Core 4	GlcNAc β 1-6[GlcNAc β 1-3]GalNAc α -Thr
		CA154	Core 6	GlcNAc β 1-6GalNAc α -Ser
		CA155	dISt	Neu5Ac α 2-3Gal β 1-3[Neu5Ac α 2-6]GalNAc α -Ser
	Glycopeptide	CA156	MUC1 Glycopeptide	PPAHGVTVT[GalNAc]SAPDTRPAPGSTAPPA
		CA157	MUC1 Glycopeptide	PPAHGVTS[GalNAc]APDTRPAPGSTAPPA
		CA158	MUC1 Glycopeptide	PPAHGVTSAPDTT[GalNAc]RPAPGSTAPPA
		CA159	MUC1 Glycopeptide	PPAHGVTSAPDTRPAPGS[GalNAc]TAPPA
		CA160	MUC1 Glycopeptide	PPAHGVTSAPDTRPAPGST[GalNAc]APPA
		GAG	HA	CA161
Heparin	CA162		Heparin dp22 (H22)	Δ UA,2S - GlcNS,6S - [IdoUA,2S - GlcNS,6S] $_n$
CS	CA163		Chondroitin Sulphate Oligosaccharide dp20 (CSO20)	Δ UA - [GalNAc,6S or 4S - GlcA] $_n$ - GalNAc,6S or 4S
CSD	CA164		Chondroitin Sulphate D Oligosaccharide dp20 (CSDO20)	Δ UA - [GalNAc,6S or 4S - GlcA +/ - 2S] $_n$ - GalNAc,6S
DS	CA165		Dermatan Sulphate dp20 (DS20)	Δ UA β 1,3 - GalNAc,4S - [IdoA - GalNAc,4S] $_n$
HS	CA166		Heparan Sulphate Oligosaccharide dp20 (Hep III, high sulphation)	Δ UA - GlcNS - [IdoA +/ - 2S - GlcNS] $_n$ - IdoA - GlcNAc