

GLYCOSYLATION SUMMARY



Protein	Theoretical MW (kDa)	Observed MW (kDa)	Maximum Difference (kDa)	Estimated Carbohydrate Content (% by weight)	N-glycosylated	O-Glycosylated	Theoretical pI	Observed pI
Activin RIA - Fc Chimera	38.7	40-48	10	3-20	Yes	?	6.8	5.5-8.5
Adiponectin	24.5	25-35	11	0-30	No	Yes	5.5	4.5-8.0
BAFF	17	16-18	minimal	<5	?	?	4.9	4.8-5.8
BAFF R - Fc Chimera	34	35-46	12	0-25	Yes	Yes	8.4	5.0-9.5
Beta-NGF	13.5	12-16	minimal	<5	No	?	9	9.0-10.0
CCL2 / MCP 1	8.7	9-17	10	0-55	?	?	9.39	>9.0
CCL3 / MIP-1 alpha	7.4	10	3	<5	No	?	4.77	4.8
CCL4 / MIP-1 beta	7.8	14.5	7	<5	No	?	4.77	4.9
CD209L - Fc Chimera	65.7	70-83	17	5-25	Yes	?	5.7	5.7-6.5
CD33 - Fc Chimera / Siglec-3 - Fc Chimera	54	60-75	21	10-30	Yes	?	8.3	6.5-10.0
CD40 (167aa) - Fc Chimera	45.7	50-65	20	5-30	Yes	?	5.9	5.0-7.5
CD40 (173aa) - Fc Chimera	46.5	50-65	18	5-30	Yes	?	6.0	5.5-9.0
c-kit - Fc Chimera / SCF R - Fc Chimera	83.1	90-150	67	5-45	Yes	Yes	6.6	4.5-8.0
c-kit / SCF sR	55.9	65-100	44	15-45	Yes	Yes	6.1	4.0-7.0
CRC-beta - Fc Chimera	76	75-100	24	0-25	Yes	Yes	6.1	5.5-7.5
Cripto-1 - Fc Chimera	42.8	45-55	12	5-30	Yes	Yes	8.2	6.5-10
DCSIGNR - Fc Chimera	65.7	70-83	17	5-25	Yes	?	5.7	5.7-6.5
EGF R - Fc Chimera	83	85-110	27	5-30	Yes	Yes	7.8	6.0-8.5
EPO	18.4	24-37	19	25-55	Yes	Yes	7.88	4.1-5.7
EPO R - Fc Chimera	52	50-65	13	0-20	Yes	?	6.4	in progress
FGF R1 alpha (IIIc) - Fc Chimera	65	87-131	66	35-50	Yes	?	5.71	5.2-6.9
FGF R4 - Fc Chimera	47.1	40-55	8	15-30	Yes	?	8.19	6.7-8.4
Flt-3 - Fc Chimera	85.2	100-130	45	15-35	Yes	Yes	6.43	5.1-6.8
Flt-3 Ligand	17.9	30-45	27	10-40	?	?	6.09	3.5-6.0
G-CSF	18.7	15.4-20	1.5	0-10	No	Yes	5.65	5.4-6.0
G-CSF R - Fc Chimera	93.9	100-130	36	5-30	Yes	?	6.6	in progress
GM-CSF	14.5	18-28	14	5-50	Yes	Yes	5.21	3.7-5.7
GM-CSF R alpha - Fc Chimera	61.7	75-100	38	15-40	Yes	?	8.7	6.0-9.5
Growth Hormone	22.1	17-22	minimal	<5	No	?	5.27	in progress
Growth Hormone R - Fc Chimera	54.3	66-83	29	15-35	Yes	?	6.9	5.0-7.7
HGF	79.7	80-110	31	0-30	Yes	Yes	8.2	6.0-9.0
IFN-alpha 2b	19.2	16-20	1	0-5	No	Yes	5.99	5.0-6.5
IFNAR2 - Fc Chimera	52	60-85	33	15-40	Yes	Yes	5.75	5.0-6.0
IFN-gamma	17.1	19.5-24	7	10-30	Yes	?	9.54	5.5-10
IFN-gamma R1 - Fc Chimera	53	60-85	32	10-35	Yes	?	5.7	5.0-8.0
IGFBP-3	28.7	40-45	16	25-35	?	?	8.76	6.8-8.2
IL-1 RI - Fc Chimera	63.6	64-110	46	0-36	Yes	?	7.01	5.5-7.5
IL-1ra	17.1	18-23	6	5-25	Yes	Yes	5.46	4.7-6.0
IL-2	15.4	16-18	3	0-15	No	Yes	7.05	6.0-7.4
IL-2 R alpha - Fc Chimera	51.5	55-85	34	5-35	Yes	Yes	6.27	4.7-7.0
IL-2 R beta - Fc Chimera	51.3	65-85	34	20-40	?	?	7.63	in progress

Protein	Theoretical MW (kDa)	Observed MW (kDa)	Maximum Difference (kDa)	Estimated Carbohydrate Content (% by weight)	N-glycosylated	O-Glycosylated	Theoretical pI	Observed pI
IL-2 R gamma - Fc Chimera	55.2	75-105	50	25-50	Yes	Yes	6.68	4.9-7.2
IL-3	15.1	18-27	12	0-40	Yes	?	7.05	4.2-6.8
IL-3 R alpha - Fc Chimera	60.7	79-101	41	25-40	Yes	Yes	8.43	6.2-9.0
IL-4	15	15-21	6	0-25	Yes	?	9.26	9.4-10.0
IL-4 R alpha (148 aa) - Fc Chimera	42.5	50-65	23	15-35	Yes	?	6.07	5.0-6.6
IL-4 R alpha (207 aa) - Fc Chimera	51	60-75	24	15-35	Yes	?	6.5	5.5-6.5
IL-5	13.1	17-21	8	10-35	Yes	Yes	7.02	4.8-7.7
IL-5 R alpha (308 aa) - Fc Chimera	62.1	70-80	18	10-25	Yes	Yes	6.34	5.8-7.0
IL-5 R alpha (322 aa) - Fc Chimera	64	65-85	21	5-30	Yes	Yes	6.2	5.5-7.5
IL-6	21	18-26	5	0-20	?	?	6.22	5.5-7.2
IL-7 R alpha - Fc Chimera	52	72-86	34	30-45	Yes	?	6.51	5.9-7.4
IL-8	8.4	10-12	4	<5	No	?	9.02	9.0-10.0
IL-10	18.6	12.5-18	minimal	<5	?	?	7.63	6.9-8.8
IL-10 R alpha - Fc Chimera	51.1	58-84	33	5-40	Yes	Yes	7.69	5.7-8.5
IL-12	22.5 (alpha chain) 34.7(beta chain)	30-35 (alpha chain) 35-45 (beta chain)	12 (alpha chain) 10 (beta chain)	15-35 (alpha chain) 0-25 (beta chain)	Yes	Yes	6.1 (alpha chain) 5.4 (beta chain)	3.5-9.5 (alpha chain) 5.0-9.0 (beta chain)
L-Selectin - Fc Chimera	59.9	76-102	42	20-45	Yes	?	5.92	4.6-6.5
Lymphotoxin-alpha / TNF-beta	18.7	19-26	7	0-25	Yes	Yes	8.94	6.6-9.1
MC-148-Fc Chimera	36.2	35-50	14	0-25	Yes	Yes	8.59	5.0-10
MCP-1 / CCL2	8.7	9-17	10	0-55	?	?	9.39	>9.0
M-CSF	18	20-35	17	0-50	Yes	Yes	4.8	3.5-5.0
M-CSF R - Fc Chimera	82	100-140	58	20-45	Yes	Yes	6.4	4.5-7.5
MIP-1 alpha / CCL3	7.4	10	3	<5	No	?	4.77	4.8
MIP-1 beta / CCL4	7.8	14.5	7	<5	No	?	4.77	4.9
NGF R(209 aa) - Fc Chimera	49.2	66	17	25-45	Yes	Yes	4.89	4.2-5.3
NGF R(222 aa) - Fc Chimera	50.8	75-100	49	30-50	Yes	Yes	4.89	4.0-6.0
Noggin	23	25-30	7	5-25	Yes	?	9.1	>8.2
NT-3	13.6	14-15	minimal	<5	?	?	9.2	6.6-10.0
Oncostatin M	23.7	25-40	16	0-40	No	Yes	9.97	5.5-10.0
Ox40 - Fc Chimera	46.4	56-64	18	15-30	Yes	Yes	8.32	5.5-7.9
SCF	21	20-42	21	0-50	Yes	Yes	5.76	30.-7.0
SCF R - Fc Chimera / c-kit - Fc Chimera	83.1	90-150	67	5-45	Yes	Yes	6.6	4.5-8.0
SCF sR / c-kit	55.9	65-100	44	15-45	Yes	Yes	6.1	4.0-7.0
Siglec-3 - Fc Chimera	54	60-75	21	10-30	Yes	?	8.3	6.5-10.0
TGF-beta 1	12.8	12-15	minimal	<5	?	?	8.6	8.5-10.0
TGF-beta RII - Fc Chimera	42.7	45-70	28	5-40	?	?	6.22	4.7-7.2
Thrombopoietin	35.5	75-100	65	>35	Yes	Yes	9.69	<5.0
TNF RI - Fc Chimera	48.1	52-60	12	5-20	Yes	?	7.69	6.5-8.6
TNF RII - Fc Chimera	51.8	56-85	34	5-35	Yes	Yes	7.89	4.5-7.5
TNF-alpha	17.4	16-17	minimal	<5	No	Yes	7	5.3-8.0
TNF-beta / Lymphotoxin-alpha	18.7	19-26	7	0-25	Yes	Yes	8.94	6.6-9.1
TRAIL R1 - Fc Chimera	50.1	45-60	10	10-35	Yes	Yes	8.8	6.0-9.0
TRAIL R2 - Fc Chimera	41.5	40-50	8.5	0-25	Yes	Yes	6.5	6.0-8.0
Transferrin	75.2	70-80	5	5-20	Yes	Yes	6.8	6.0-8.0
TrkA - Fc Chimera	67.6	92-127	60	25-50	Yes	?	5.85	5.0-6.7
TrkB - Fc Chimera	71	92-115	44	20-40	Yes	Yes	5.79	4.9-6.7
TrkC - Fc Chimera	71.9	85-150	78	15-55	Yes	Yes	5.8	4.0-7.0
VEGF-121	14	14.5-20	6	0-30	No	Yes	6.1	5.5-7.0

Protein	Theoretical MW (kDa)	Observed MW (kDa)	Maximum Difference (kDa)	Estimated Carbohydrate Content (% by weight)	N-glycosylated	O-Glycosylated	Theoretical pI	Observed pI
VEGF-165	19.2	17-22	3	0-20	?	?	7.60	5.7-8.3
VEGF-C	21.6 and 22.2	27-35	13	15-40	Yes	?	7.8	5.6-8.4