

HA # for one Gd attached	HA unit MW	Gd MW	Gd-DTPA-EDA MW	Gd% weight
1	384	157	650	0.15
2	768	157	650	0.11
3	1152	157	650	0.09
4	1536	157	650	0.07
5	1920	157	650	0.06
6	2304	157	650	0.05
7	2688	157	650	0.05

16kDa HA # of units = $16k/384 = 42$
 one Gd in every six HA total Gd = 7 units
 final MW = $35*384 + 7*(384+650) = 20.7 \text{ kDa}$
 74 kDa HA # of units = $74k/384 = 193$
 one Gd in every six HA total Gd = 32 units
 final MW = $161*384 + 32*(384+650) = 95 \text{ kDa}$

One in seven
 16 kDa
 final MW = $36*384 + 6*(384+650) = 20 \text{ kDa}$
 74 kDa
 final MW = $165*384 + 28*(384+650) = 92 \text{ kDa}$