

Conversions

Grams to molar

- $ug/ml = uM \cdot MW[kDa]:$ $\frac{ug}{ml} = \frac{umol}{L} \cdot \frac{1 mol}{10^6 umol} \cdot \frac{MW [kDa] \cdot 10^3 g}{mol} \cdot \frac{10^6 ug}{g} \cdot \frac{1 L}{10^3 ml}$
- $ug/ml = nM \cdot MW[kDa]/1000:$ $\frac{ug}{ml} = \frac{nmol}{L} \cdot \frac{1 mol}{10^9 nmol} \cdot \frac{MW [kDa] \cdot 10^3 g}{mol} \cdot \frac{10^6 ug}{g} \cdot \frac{1 L}{10^3 ml}$
- $ng/ml = nM \cdot MW[kDa]:$ $\frac{ng}{ml} = \frac{nmol}{L} \cdot \frac{1 mol}{10^9 nmol} \cdot \frac{MW [kDa] \cdot 10^3 g}{mol} \cdot \frac{10^9 ng}{g} \cdot \frac{1 L}{10^3 ml}$

Molar to grams (inverse of above)

- $uM = ug/ml / MW[kDa]$
- $nM = (ug/ml)/MW[kDa] \cdot 1000:$
- $nM = ng/ml / MW[kDa]:$