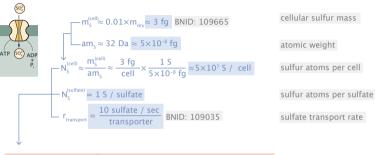
sulfur transport



$$N_{\text{transporters}} \approx \frac{N_s^{(\text{cell})}}{N_s} \approx \frac{1}{N_s^{(\text{sulfate})}} \approx \frac{5 \times 10^7 \frac{5}{\text{cell}}}{1 \frac{5}{\text{sulfate}} \times 10 \frac{\text{sulfate}}{\text{sec \times transporter}} \times 5000 \frac{\text{sec}}{\text{cell}}}$$
 number of sulfate transporter complexes $\approx 1000 \text{ transporters}$