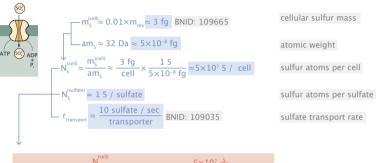
sulfur transport



$$\begin{split} N_{transporters} &\approx \frac{N_{\varsigma}^{(cell)}}{N_{\varsigma}} \approx \frac{5 \times 10^{7} \frac{s}{cell}}{1 \frac{s}{sulfate} \times 10 \frac{s}{sec \times transporter} \times 5000 \frac{sec}{cell}} \\ &\approx 1000 \ transporters \end{split}$$

number of sulfate transporter complexes