Correction: Kinetic Validation of the Models for P-Glycoprotein ATP Hydrolysis and Vanadate-Induced Trapping. Proposal for Additional Steps

The PLOS ONE Staff

There are errors in Equations 4, 5, 14b, and 15b. In Equations 4 and 5, phis were changed to thetas during the typesetting process; the publisher apologizes for the errors. In Equations 14b and 15b, “when [ADP] = 0” should read “when [ATP] = 0.” Please see the correct equations here.

\[ \text{(a)} k_{\text{cat}} = \frac{k_2}{\varphi} \quad \text{(b)} K_m = \frac{1}{\varphi} \left( K_{d1}^{\text{ATP}} + \frac{k_2}{k_1} \right) \]

\[ \text{(c)} K_{d1}^{P_i} = \varphi x K_d^{P_i} \quad \text{(d)} K_{d1}^{V_i} = \varphi x K_d^{V_i} \]

\[ \text{(a)} x = \frac{k_4}{k_2} \quad \text{(b)} \varphi = k_2 \left( \frac{1}{k_2} + \frac{1}{k_{-3}} + \frac{1}{k_{-4}} \right) \]

\[ K_{d,\text{app}}^{V_i} = K_d^{V_i} \left( 1 + \frac{K_{d1}^{\text{ADP}}}{[\text{ADP}]} + \frac{[P_i]}{K_d^{P_i}} \right) \text{ when } [\text{ATP}] = 0 \quad (14b) \]

\[ K_{d,\text{app}}^{V_i} = K_d^{V_i} \left( 1 + \frac{[P_i]}{K_d^{\text{eff}}} \right) \text{ when } [\text{ATP}] = 0 \quad (15b) \]

Reference

1. Lugo MR, Sharom FJ (2014) Kinetic Validation of the Models for P-Glycoprotein ATP Hydrolysis and Vanadate-Induced Trapping. Proposal for Additional Steps. PLoS ONE 9(6): e98804. doi:10.1371/journal.pone.0098804