Corrigendum

Corrigendum to “Interaction between Gallotannin and a Recombinant Form of Arginine Kinase of Trypanosoma brucei: Thermodynamic and Spectrofluorimetric Evaluation”

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In the article titled “Interaction between Gallotannin and a Recombinant Form of Arginine Kinase of Trypanosoma brucei: Thermodynamic and Spectrofluorimetric Evaluation” [1], there were a typo in Equation (7), where the denominator K2 should be corrected to K1, and an error in Table 2, where the values for ΔH, ΔS, and ΔG were incorrectly calculated. The equation and table are corrected as follows:

\[
\ln \frac{k_2}{k_1} = \left( \frac{1}{T_1} - \frac{1}{T_2} \right) \frac{\Delta H_0}{R}.
\]  (7)

Table 2: Thermodynamic parameters, binding constant (K), and number of binding sites (n) estimated for the interaction between arginine kinase of Trypanosoma brucei (TbAK) and gallotannin.

| Inhibitors | T (K)  | K (L mol⁻¹) | n     | R²  | ΔH (KJ/mol) | ΔG (KJ/K/mol) | ΔS (J/mol/K) |
|-----------|--------|-------------|-------|-----|-------------|---------------|--------------|
| Tannin    | 298    | 3.7 × 10⁴   | 1.2176| 0.9494| -8.40       | -26.06        | 59.26        |
|           | 303    | 3.5 × 10⁴   | 1.3381| 0.9713| -26.35      | 59.24         |              |

a is the correlation coefficient.

References

[1] O. S. Adeyemi, A. F. Sulaiman, and O. M. Iniaghe, “Interaction between gallotannin and a recombinant form of arginine kinase of Trypanosoma brucei: thermodynamic and spectrofluorimetric evaluation,” Journal of Biophysics, vol. 2014, Article ID 675905, 7 pages, 2014.