

Correction to Hysteresis and Negative Cooperativity in Human UDP-Glucose Dehydrogenase

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Biochemistry 2013, 52 (8), 1456–1465. DOI: 10.1021/bi301593c

Several corrections are needed in Table 2: in Row 3, column 2, “ $(0.12 \pm 3) \times 10^{-3} (k_4)^b$ ” should be changed to “ $0.120 \pm 0.003 (k_4)^b$ ”, in Row 3, column 3, “ $(2 \pm 1) \times 10^{-3} (k_{-4})^b$ ” should be changed to “ $0.002 \pm 0.001 (k_{-4})^b$ ”, in Row 4, column 3, “ $105 \times 10^{-4} \pm 1.5 \times 10^{-3} (k_{-5})^a$ ” should be changed to “ $0.0105 \pm 0.0015 (k_{-5})^a$ ”, and “ $E^\dagger:UDG:NADH \leftrightarrow E^*:UDG:NADH$ ” should be changed to “ $E:UDG:NADH \leftrightarrow E^*:UDG:NADH$ ”. The corrected Table 2 with these changes incorporated appears below.

Table 2. Microscopic Rate Constants from hUGDH Transient-State Kinetics

transient event	$k_{\text{forward}} (k_f, \text{s}^{-1})$	$k_{\text{reverse}} (k_r, \text{s}^{-1})$	k_r/k_f	K_{eq}
$E^\dagger:UDG + NADH \leftrightarrow E^\dagger:UDG:NADH$	$2.7 \pm 0.1 \text{ M}^{-1} (k_3)^a$	$21.9 \pm 2 (k_{-3})^a$	8.1	
$E^\dagger:UDG:NADH \leftrightarrow E^*:UDG:NADH$	$0.120 \pm 0.003 (k_4)^b$	$0.002 \pm 0.001 (k_{-4})^b$	0.017	$79.3 (K_3)^b$
$E + NADH \leftrightarrow E:NADH$	$2.7 \times 10^{-4} \pm 1.5 \times 10^{-5} \text{ M}^{-1} (k_5)^a$	$0.0105 \pm 0.0015 (k_{-5})^a$	39	
$E:UDG:NADH \leftrightarrow E^*:UDG:NADH$	$42.7 \pm 1.4 (k_7)^b$	$0.26 \pm 1.3 (k_{-7})^b$	0.006	$58.3 (K_6)^b$

^aForward and reverse rate constants were calculated using eq 8. ^bForward and reverse rate constants and the equilibrium constant (K_{eq}) were calculated using eq 9.