

SUPPLEMENTARY TABLE 1. Pre-steady-state kinetic constants for binding and incorporation of dCTP and 3TC-TP by WT and E138A HIV-1 RTs ^a

RT	dCTP			3TC-TP			Selectivity ^b	Fold-R ^c
	k_{pol} (s ⁻¹)	K_d (μM)	k_{pol}/K_d (μM ⁻¹ .s ⁻¹)	k_{pol} (s ⁻¹)	K_d (μM)	k_{pol}/K_d (μM ⁻¹ .s ⁻¹)		
WT	1.8±0.6	1.3±0.1	1.38	0.043±0.01	0.090±0.014	0.48	2.9	-
E138A	1.9±0.2	3.7±0.7	0.51	0.032±0.02	0.61±0.09	0.05	10.2	3.5
E138K	1.9±0.4	1.2±0.1	1.58	0.037±0.02	0.115±0.11	0.32	4.9	1.7

^a Data are the mean ± standard deviations of results from 3 independent experiments.

^b Selectivity is defined as follows: (k_{pol}/K_d value for incorporation of dCTP)/(k_{pol}/K_d value for incorporation of 3TC-TP).

^c The change in resistance was calculated as follows: selectivity of the E138A mutant/selectivity of the WT.