

*Table 1. Kinetic Characterization of VSVG Trafficking*

	Exit rate constants			Mean residence time		
	ER	Golgi	PM $\text{min}^{-1}$	ER	Golgi	PM $\text{min}$
Control ( $n = 32$ )	0.0284 $\pm 0.002$	0.0303 $\pm 0.0026$	0.00255 $\pm 0.00034$	39.4 $\pm 2.3$	42.0 $\pm 4.0$	709 $\pm 100$
Cyto-B ( $n = 18$ )	0.0227* $\pm 0.0012$	0.0192* $\pm 0.0015$	0.00612*** $\pm 0.00044$	46.1* $\pm 2.4$	57.4* $\pm 4.1$	179** $\pm 14$

Cells expressing VSVG-GFP were incubated for  $\sim 20$  h at  $40^\circ\text{C}$  before shift to  $32^\circ\text{C}$ . Shown are effective rate constants and corresponding residence times obtained by least squares fitting of the VSVG-GFP time course data to the three compartment model. Numerical values are mean  $\pm$  SE for the number of cells indicated. *Asterisks*, statistical significance compared to control: \*,  $P < 0.05$ ; \*\*,  $P < 0.001$ ; \*\*\*,  $P < 0.000001$ .