

Bulk CheR binding to tether	$a_r^t$	$1/14.7 \text{ s}^{-1}/T_{Tot,0}$
CheR unbinding tether	$d_r^t$	$5 \text{ s}^{-1}$
Bulk CheB binding to tether	$a_b^t$	$1/16.3 \text{ s}^{-1}/T_{Tot,0}$
CheB unbinding tether	$d_b^t$	$5 \text{ s}^{-1}$
CheR catalytic rate	$k_r$	$2.7 \text{ s}^{-1}$
CheB catalytic rate	$k_b$	$3 \text{ s}^{-1}$
Tethered CheR modification site affinity	$K_r$	0.03
Tethered CheB modification site affinity	$K_b$	0.03
CheB phosphorylation rate	$a_p$	$3 \text{ s}^{-1}/T_{Tot}$
CheB-P dephosphorylation rate	$d_p$	$0.37 \text{ s}^{-1}$