

Bulk CheR binding to tether	$a_r^t$	$1/14.7 \text{ s}^{-1}/T_{Tot,0}$
Bulk CheR binding to modification site	$a_r^m$	$0.0245 \text{ s}^{-1}/T_{Tot,0}$
Tethered CheR binding modification site, same receptor	$a_{r*}^m$	$400 \text{ s}^{-1}$
CheR binding tether while attached to mod. site, same receptor	$a_{r*}^t$	$1110 \text{ s}^{-1}$
Tethered CheR binding modification site, neighboring receptor	$a_{r*}^{m'}$	$400 \text{ s}^{-1}$
CheR binding tether while attached to mod. site, neighboring rec.	$a_{r*}^{t'}$	$1110 \text{ s}^{-1}$
CheR unbinding modification site	$d_r^m$	$9.3 \text{ s}^{-1}$
CheR unbinding tether site	$d_r^t$	$5 \text{ s}^{-1}$
CheR catalytic rate	$k_r$	$2.7 \text{ s}^{-1}$
Bulk CheB-P binding to tether	$a_b^t$	$1/16.3 \text{ s}^{-1}/T_{Tot,0}$
Bulk CheB-P binding to modification site	$a_b^m$	$0.0245 \text{ s}^{-1}/T_{Tot,0}$
Tethered CheB-P binding modification site, same receptor	$a_{b*}^m$	$400 \text{ s}^{-1}$
CheB-P binding tether while attached to mod. site	$a_{b*}^t$	$1000 \text{ s}^{-1}$
Tethered CheB-P binding modification site, neighboring receptor	$a_{b*}^{m'}$	$400 \text{ s}^{-1}$
CheB-P binding tether while attached to mod. site, neighboring rec.	$a_{b*}^{t'}$	$1000 \text{ s}^{-1}$
CheB-P unbinding modification site	$d_b^m$	$9 \text{ s}^{-1}$
CheB-P unbinding tether site	$d_b^t$	$5 \text{ s}^{-1}$
CheB-P catalytic rate	$k_b$	$3 \text{ s}^{-1}$
CheB phosphorylation rate	$a_p$	$3 \text{ s}^{-1}/T_{Tot}$
CheB-P dephosphorylation rate	$d_p$	$0.37 \text{ s}^{-1}$