Parameter	Description	Value Range	Value Used	Reference(s)
Ca^{2+} binding to CaM				
k_{on}^{1N}	1st Ca^{2+} binding to CaM N-terminus	25.0-260.0 $\mu M^{-1}s^{-1}$	100.0 $\mu M^{-1}s^{-1}$	[1]
k_{off}^{1N}	1st Ca^{2+} dissociation from CaM N-terminus	1000.0-4000.0 s^{-1}	2500.0 s^{-1}	[1]
K_D^{1N}	Equilibrium binding of 1st Ca^{2+} to CaM N-terminus	15.0-40.0 μM	25.0 μM	[1]
k_{on}^{2N}	2nd Ca^{2+} binding to CaM N-terminus	50.0-300.0 $\mu M^{-1}s^{-1}$	150.0 $\mu M^{-1}s^{-1}$	[1]
k_{off}^{2N}	2nd Ca^{2+} dissociation from CaM N-terminus	500.0-1000.0+ s^{-1}	750.0 s^{-1}	[1]
K_D^{2N}	Equilibrium binding of 2nd Ca^{2+} to CaM N-terminus	3.3-9.0 μM	5.0 μM	[1]
k_{on}^{1C}	1st Ca^{2+} binding to CaM C-terminus	1.2-9.6 $\mu M^{-1}s^{-1}$	4.0 $\mu M^{-1}s^{-1}$	[1]
k_{off}^{1C}	1st Ca^{2+} dissociation from CaM C-terminus	10.0-70.0 s^{-1}	40.0 s^{-1}	[1]
K_D^{1C}	Equilibrium binding of 1st Ca^{2+} to CaM C-terminus	7.3-12.0 μM	10.0 μM	[1]
k_{on}^{2C}	2nd Ca^{2+} binding to CaM C-terminus	5.0-25.0 $\mu M^{-1}s^{-1}$	10.0 $\mu M^{-1}s^{-1}$	[1]
k_{off}^{2C}	2nd Ca^{2+} dissociation from CaM C-terminus	8.5-10.0 s^{-1}	9.25 s^{-1}	[1]
K_D^{2C}	Equilibrium binding of 2nd Ca^{2+} to CaM C-terminus	0.4-1.7 μM	0.925 μM	[1]
CaM binding to AC1				
$k_{on}^{AC1CaM0}$	CaM0 binding to AC1		0.00166 $\mu M^{-1}s^{-1}$	[2]
$k_{off}^{AC1CaM0}$	CaM0 dissociation from AC1		0.9 s^{-1}	[3]
$K_D^{AC1CaM0}$	Equilibrium binding of CaM0 to AC1		542.0 μM	[4]
$k_{on}^{AC1CaM1N}$	CaM1N binding to AC1		0.00166 $\mu M^{-1}s^{-1}$	[2]
$k_{off}^{AC1CaM1N}$	CaM1N dissociation from AC1		0.9 s^{-1}	[3]
$K_D^{AC1CaM1N}$	Equilibrium binding of CaM1N to AC1		542.0 μM	[4]
$k_{on}^{AC1CaM1C}$	CaM1C binding to AC1		0.00830 $\mu M^{-1}s^{-1}$	[2]
$k_{off}^{AC1CaM1C}$	CaM1C dissociation from AC1		0.9 s^{-1}	[3]
$K_D^{AC1CaM1C}$	Equilibrium binding of CaM1C to AC1		108.0 μM	[4]
$k_{on}^{AC1CaM1N1C}$	CaM1N1C binding to AC1		0.00830 $\mu M^{-1}s^{-1}$	[2]
$k_{off}^{AC1CaM1N1C}$	CaM1N1C dissociation from AC1		0.9 s^{-1}	[3]
$K_D^{AC1CaM1N1C}$	Equilibrium binding of CaM1N1C to AC1		108.0 μM	[4]
$k_{on}^{AC1CaM2N}$	CaM2N binding to AC1		0.156 $\mu M^{-1}s^{-1}$	[2]
$k_{off}^{AC1CaM2N}$	CaM2N dissociation from AC1		0.9 s^{-1}	[3]
$K_D^{AC1CaM2N}$	Equilibrium binding of CaM2N to AC1		5.78 μM	[4]
$k_{on}^{AC1CaM2C}$	CaM2C binding to AC1		0.064 $\mu M^{-1}s^{-1}$	[2]
$k_{off}^{AC1CaM2C}$	CaM2C dissociation from AC1		0.9 s^{-1}	[3]
$K_D^{AC1CaM2C}$	Equilibrium binding of CaM2C to AC1		14.1 μM	[4]
$k_{on}^{AC1CaM2N1C}$	CaM2N1C binding to AC1		0.778 $\mu M^{-1}s^{-1}$	[2]
$k_{off}^{AC1CaM2N1C}$	CaM2N1C dissociation from AC1		0.9 s^{-1}	[3]
$K_D^{AC1CaM2N1C}$	Equilibrium binding of CaM2N1C to AC1		1.16 μM	[4]
$k_{on}^{AC1CaM1N2C}$	CaM1N2C binding to AC1		0.064 $\mu M^{-1}s^{-1}$	[2]

$k_{off}^{AC1CaM1N2C}$	CaM1N2C dissociation from AC1		0.9 s^{-1}	[3]
$K_D^{AC1CaM1N2C}$	Equilibrium binding of CaM1N2C to AC1		14.1 μM	[4]
$k_{on}^{AC1CaM4}$	CaM4 binding to AC1		6.0 $\mu M^{-1}s^{-1}$	[5]
$k_{off}^{AC1CaM4}$	CaM4 dissociation from AC1		0.9 s^{-1}	[5]
$K_D^{AC1CaM4}$	Equilibrium binding of CaM4 to AC1		0.15 μM	[2]
Ca^{2+} binding to AC1-CaM				
k_{on}^{AC11N}	1st Ca^{2+} binding to AC1-CaM N-terminus		100.0 $\mu M^{-1}s^{-1}$	[6]
k_{off}^{AC11N}	1st Ca^{2+} dissociation from AC1-CaM N-terminus		2500.0 s^{-1}	[8]
K_D^{AC11N}	Equilibrium binding of 1st Ca^{2+} to AC1-CaM N-terminus		25.0 μM	[2]
k_{on}^{AC12N}	2nd Ca^{2+} binding to AC1-CaM N-terminus		150.0 $\mu M^{-1}s^{-1}$	[6]
k_{off}^{AC12N}	2nd Ca^{2+} dissociation from AC1-CaM N-terminus		8.0 s^{-1}	[8]
K_D^{AC12N}	Equilibrium binding of 2nd Ca^{2+} to AC1-CaM N-terminus		0.0533 μM	[2]
k_{on}^{AC11C}	1st Ca^{2+} binding to AC1-CaM C-terminus		4.0 $\mu M^{-1}s^{-1}$	[6]
k_{off}^{AC11C}	1st Ca^{2+} dissociation from AC1-CaM C-terminus		8.0 s^{-1}	[8]
K_D^{AC11C}	Equilibrium binding of 1st Ca^{2+} to AC1-CaM C-terminus		2.0 μM	[2]
k_{on}^{AC12C}	2nd Ca^{2+} binding to AC1-CaM C-terminus		10.0 $\mu M^{-1}s^{-1}$	[6]
k_{off}^{AC12C}	2nd Ca^{2+} dissociation from AC1-CaM C-terminus		1.2 s^{-1}	[8]
K_D^{AC12C}	Equilibrium binding of 2nd Ca^{2+} to AC1-CaM C-terminus		0.12 μM	[2]
CaM binding to AC8 N-terminus				
$k_{on}^{AC8ntCaM0}$	CaM0 binding to AC8 N-terminus		0.00828 $\mu M^{-1}s^{-1}$	[2]
$k_{off}^{AC8ntCaM0}$	CaM0 dissociation from AC8 N-terminus		1.0 s^{-1}	[3]
$K_D^{AC8ntCaM0}$	Equilibrium binding of CaM0 to AC8 N-terminus		121.0 μM	[4]
$k_{on}^{AC8ntCaM1N}$	CaM1N binding to AC8 N-terminus		0.00828 $\mu M^{-1}s^{-1}$	[2]
$k_{off}^{AC8ntCaM1N}$	CaM1N dissociation from AC8 N-terminus		1.0 s^{-1}	[3]
$K_D^{AC8ntCaM1N}$	Equilibrium binding of CaM1N to AC8 N-terminus		121.0 μM	[4]
$k_{on}^{AC8ntCaM1C}$	CaM1C binding to AC8 N-terminus		0.0676 $\mu M^{-1}s^{-1}$	[2]
$k_{off}^{AC8ntCaM1C}$	CaM1C dissociation from AC8 N-terminus		1.0 s^{-1}	[3]
$K_D^{AC8ntCaM1C}$	Equilibrium binding of CaM1C to AC8 N-terminus		14.8 μM	[4]
$k_{on}^{AC8ntCaM1N1C}$	CaM1N1C binding to AC8 N-terminus		0.0676 $\mu M^{-1}s^{-1}$	[2]
$k_{off}^{AC8ntCaM1N1C}$	CaM1N1C dissociation from AC8 N-terminus		1.0 s^{-1}	[3]
$K_D^{AC8ntCaM1N1C}$	Equilibrium binding of CaM1N1C to AC8 N-terminus		14.8 μM	[4]

$k_{on}^{AC8ntCaM2N}$	CaM2N binding to AC8 N-terminus		0.00828 $\mu M^{-1}s^{-1}$	[2]
$k_{off}^{AC8ntCaM2N}$	CaM2N dissociation from AC8 N-terminus		1.0 s^{-1}	[3]
$K_D^{AC8ntCaM2N}$	Equilibrium binding of CaM2N to AC8 N-terminus		121.0 μM	[4]
$k_{on}^{AC8ntCaM2C}$	CaM2C binding to AC8 N-terminus		1.25 $\mu M^{-1}s^{-1}$	[2]
$k_{off}^{AC8ntCaM2C}$	CaM2C dissociation from AC8 N-terminus		1.0 s^{-1}	[3]
$K_D^{AC8ntCaM2C}$	Equilibrium binding of CaM2C to AC8 N-terminus		0.8 μM	[4]
$k_{on}^{AC8ntCaM2N1C}$	CaM2N1C binding to AC8 N-terminus		0.0676 $\mu M^{-1}s^{-1}$	[2]
$k_{off}^{AC8ntCaM2N1C}$	CaM2N1C dissociation from AC8 N-terminus		1.0 s^{-1}	[3]
$K_D^{AC8ntCaM2N1C}$	Equilibrium binding of CaM2N1C to AC8 N-terminus		14.8 μM	[4]
$k_{on}^{AC8ntCaM1N2C}$	CaM1N2C binding to AC8 N-terminus		1.25 $\mu M^{-1}s^{-1}$	[2]
$k_{off}^{AC8ntCaM1N2C}$	CaM1N2C dissociation from AC8 N-terminus		1.0 s^{-1}	[3]
$K_D^{AC8ntCaM1N2C}$	Equilibrium binding of CaM1N2C to AC8 N-terminus		0.8 μM	[4]
$k_{on}^{AC8ntCaM4}$	CaM4 binding to AC8 N-terminus		1.25 $\mu M^{-1}s^{-1}$	[5]
$k_{off}^{AC8ntCaM4}$	CaM4 dissociation from AC8 N-terminus		1.0 s^{-1}	[5]
$K_D^{AC8ntCaM4}$	Equilibrium binding of CaM4 to AC8 N-terminus		0.8 μM	[2]
Ca^{2+} binding to AC8(N-terminus)-CaM				
$k_{on}^{AC8nt1N}$	1st Ca^{2+} binding to AC8(N-terminus)-CaM N-terminus		100.0 $\mu M^{-1}s^{-1}$	[6]
$k_{off}^{AC8nt1N}$	1st Ca^{2+} dissociation from AC8(N-terminus)-CaM N-terminus		2500.0 s^{-1}	[7]
$K_D^{AC8nt1N}$	Equilibrium binding of 1st Ca^{2+} to AC8(N-terminus)-CaM N-terminus		25.0 μM	[2]
$k_{on}^{AC8nt2N}$	2nd Ca^{2+} binding to AC8(N-terminus)-CaM N-terminus		150.0 $\mu M^{-1}s^{-1}$	[6]
$k_{off}^{AC8nt2N}$	2nd Ca^{2+} dissociation from AC8(N-terminus)-CaM N-terminus		750.0 s^{-1}	[8]
$K_D^{AC8nt2N}$	Equilibrium binding of 2nd Ca^{2+} to AC8(N-terminus)-CaM N-terminus		5.0 μM	[2]
$k_{on}^{AC8nt1C}$	1st Ca^{2+} binding to AC8(N-terminus)-CaM C-terminus		4.0 $\mu M^{-1}s^{-1}$	[6]
$k_{off}^{AC8nt1C}$	1st Ca^{2+} dissociation from AC8(N-terminus)-CaM C-terminus		4.9 s^{-1}	[8]
$K_D^{AC8nt1C}$	Equilibrium binding of 1st Ca^{2+} to AC8(N-terminus)-CaM C-terminus		1.23 μM	[2]
$k_{on}^{AC8nt2C}$	2nd Ca^{2+} binding to AC8(N-terminus)-CaM C-terminus		10.0 $\mu M^{-1}s^{-1}$	[6]
$k_{off}^{AC8nt2C}$	2nd Ca^{2+} dissociation from AC8(N-terminus)-CaM C-terminus		0.5 s^{-1}	[8]

$K_D^{AC8nt2C}$	Equilibrium binding of 2nd Ca^{2+} to AC8(N-terminus)-CaM C-terminus		0.05 μM	[2]
CaM binding to AC8 C-terminus				
$k_{on}^{AC8ctCaM0}$	CaM0 binding to AC8 C-terminus		0.00267 $\mu M^{-1}s^{-1}$	[2]
$k_{off}^{AC8ctCaM0}$	CaM0 dissociation from AC8 C-terminus		1.0 s^{-1}	[3]
$K_D^{AC8ctCaM0}$	Equilibrium binding of CaM0 to AC8 C-terminus		375.0 μM	[4]
$k_{on}^{AC8ctCaM1N}$	CaM1N binding to AC8 C-terminus		0.00267 $\mu M^{-1}s^{-1}$	[2]
$k_{off}^{AC8ctCaM1N}$	CaM1N dissociation from AC8 C-terminus		1.0 s^{-1}	[3]
$K_D^{AC8ctCaM1N}$	Equilibrium binding of CaM1N to AC8 C-terminus		375.0 μM	[4]
$k_{on}^{AC8ctCaM1C}$	CaM1C binding to AC8 C-terminus		0.00267 $\mu M^{-1}s^{-1}$	[2]
$k_{off}^{AC8ctCaM1C}$	CaM1C dissociation from AC8 C-terminus		1.0 s^{-1}	[3]
$K_D^{AC8ctCaM1C}$	Equilibrium binding of CaM1C to AC8 C-terminus		375.0 μM	[4]
$k_{on}^{AC8ctCaM1N1C}$	CaM1N1C binding to AC8 C-terminus		0.00267 $\mu M^{-1}s^{-1}$	[2]
$k_{off}^{AC8ctCaM1N1C}$	CaM1N1C dissociation from AC8 C-terminus		1.0 s^{-1}	[3]
$K_D^{AC8ctCaM1N1C}$	Equilibrium binding of CaM1N1C to AC8 C-terminus		375.0 μM	[4]
$k_{on}^{AC8ctCaM2N}$	CaM2N binding to AC8 C-terminus		1.25 $\mu M^{-1}s^{-1}$	[2]
$k_{off}^{AC8ctCaM2N}$	CaM2N dissociation from AC8 C-terminus		1.0 s^{-1}	[3]
$K_D^{AC8ctCaM2N}$	Equilibrium binding of CaM2N to AC8 C-terminus		0.8 μM	[4]
$k_{on}^{AC8ctCaM2C}$	CaM2C binding to AC8 C-terminus		0.00267 $\mu M^{-1}s^{-1}$	[2]
$k_{off}^{AC8ctCaM2C}$	CaM2C dissociation from AC8 C-terminus		1.0 s^{-1}	[3]
$K_D^{AC8ctCaM2C}$	Equilibrium binding of CaM2C to AC8 C-terminus		375.0 μM	[4]
$k_{on}^{AC8ctCaM2N1C}$	CaM2N1C binding to AC8 C-terminus		1.25 $\mu M^{-1}s^{-1}$	[2]
$k_{off}^{AC8ctCaM2N1C}$	CaM2N1C dissociation from AC8 C-terminus		1.0 s^{-1}	[3]
$K_D^{AC8ctCaM2N1C}$	Equilibrium binding of CaM2N1C to AC8 C-terminus		0.8 μM	[4]
$k_{on}^{AC8ctCaM1N2C}$	CaM1N2C binding to AC8 C-terminus		0.00267 $\mu M^{-1}s^{-1}$	[2]
$k_{off}^{AC8ctCaM1N2C}$	CaM1N2C dissociation from AC8 C-terminus		1.0 s^{-1}	[3]
$K_D^{AC8ctCaM1N2C}$	Equilibrium binding of CaM1N2C to AC8 C-terminus		375.0 μM	[4]
$k_{on}^{AC8ctCaM4}$	CaM4 binding to AC8 C-terminus		1.25 $\mu M^{-1}s^{-1}$	[5]
$k_{off}^{AC8ctCaM4}$	CaM4 dissociation from AC8 C-terminus		1.0 s^{-1}	[5]
$K_D^{AC8ctCaM4}$	Equilibrium binding of CaM4 to AC8 C-terminus		0.8 μM	[2]
Ca^{2+} binding to AC8(C-terminus)-CaM				
$k_{on}^{AC8ct1N}$	1st Ca^{2+} binding to AC8(C-terminus)-CaM N-terminus		100.0 $\mu M^{-1}s^{-1}$	[6]

$k_{off}^{AC8ct1N}$	1st Ca^{2+} dissociation from AC8(C-terminus)-CaM N-terminus		2500.0 s^{-1}	[7]
$K_D^{AC8ct1N}$	Equilibrium binding of 1st Ca^{2+} to AC8(C-terminus)-CaM N-terminus		25.0 μM	[2]
$k_{on}^{AC8ct2N}$	2nd Ca^{2+} binding to AC8(C-terminus)-CaM N-terminus		150.0 $\mu M^{-1}s^{-1}$	[6]
$k_{off}^{AC8ct2N}$	2nd Ca^{2+} dissociation from AC8(C-terminus)-CaM N-terminus		1.6 s^{-1}	[8]
$K_D^{AC8ct2N}$	Equilibrium binding of 2nd Ca^{2+} to AC8(C-terminus)-CaM N-terminus		0.0107 μM	[2]
$k_{on}^{AC8ct1C}$	1st Ca^{2+} binding to AC8(C-terminus)-CaM C-terminus		4.0 $\mu M^{-1}s^{-1}$	[6]
$k_{off}^{AC8ct1C}$	1st Ca^{2+} dissociation from AC8(C-terminus)-CaM C-terminus		40.0 s^{-1}	[8]
$K_D^{AC8ct1C}$	Equilibrium binding of 1st Ca^{2+} to AC8(C-terminus)-CaM C-terminus		10.0 μM	[2]
$k_{on}^{AC8ct2C}$	2nd Ca^{2+} binding to AC8(C-terminus)-CaM C-terminus		10.0 $\mu M^{-1}s^{-1}$	[6]
$k_{off}^{AC8ct2C}$	2nd Ca^{2+} dissociation from AC8(C-terminus)-CaM C-terminus		9.25 s^{-1}	[8]
$K_D^{AC8ct2C}$	Equilibrium binding of 2nd Ca^{2+} to AC8(C-terminus)-CaM C-terminus		0.925 μM	[2]
CaM binding to CaN				
k_{on}^{PPCaM0}	CaM0 binding to CaN		0.0000000798 $\mu M^{-1}s^{-1}$	[2]
k_{off}^{PPCaM0}	CaM0 dissociation from CaN		0.000319 s^{-1}	[3]
K_D^{PPCaM0}	Equilibrium binding of CaM0 to CaN		3999.0 μM	[4]
$k_{on}^{PPCaM1N}$	CaM1N binding to CaN		0.00000665 $\mu M^{-1}s^{-1}$	[2]
$k_{off}^{PPCaM1N}$	CaM1N dissociation from CaN		0.000319 s^{-1}	[3]
$K_D^{PPCaM1N}$	Equilibrium binding of CaM1N to CaN		48.0 μM	[4]
$k_{on}^{PPCaM1C}$	CaM1C binding to CaN		0.00001334 $\mu M^{-1}s^{-1}$	[2]
$k_{off}^{PPCaM1C}$	CaM1C dissociation from CaN		0.000319 s^{-1}	[3]
$K_D^{PPCaM1C}$	Equilibrium binding of CaM1C to CaN		23.9 μM	[4]
$k_{on}^{PPCaM1N1C}$	CaM1N1C binding to CaN		0.000665 $\mu M^{-1}s^{-1}$	[2]
$k_{off}^{PPCaM1N1C}$	CaM1N1C dissociation from CaN		0.000319 s^{-1}	[3]
$K_D^{PPCaM1N1C}$	Equilibrium binding of CaM1N1C to CaN		0.480 μM	[4]
$k_{on}^{PPCaM2N}$	CaM2N binding to CaN		0.000416 $\mu M^{-1}s^{-1}$	[2]
$k_{off}^{PPCaM2N}$	CaM2N dissociation from CaN		0.000319 s^{-1}	[3]
$K_D^{PPCaM2N}$	Equilibrium binding of CaM2N to CaN		0.768 μM	[4]
$k_{on}^{PPCaM2C}$	CaM2C binding to CaN		0.000123 $\mu M^{-1}s^{-1}$	[2]
$k_{off}^{PPCaM2C}$	CaM2C dissociation from CaN		0.000319 s^{-1}	[3]
$K_D^{PPCaM2C}$	Equilibrium binding of CaM2C to CaN		2.59 μM	[4]
$k_{on}^{PPCaM2N1C}$	CaM2N1C binding to CaN		0.0416 $\mu M^{-1}s^{-1}$	[2]
$k_{off}^{PPCaM2N1C}$	CaM2N1C dissociation from CaN		0.000319 s^{-1}	[3]

$K_D^{PPCaM2N1C}$	Equilibrium binding of CaM2N1C to CaN		0.00768 μM	[4]
$k_{on}^{PPCaM1N2C}$	CaM1N2C binding to CaN		0.0102 $\mu M^{-1}s^{-1}$	[2]
$k_{off}^{PPCaM1N2C}$	CaM1N2C dissociation from CaN		0.000319 s^{-1}	[3]
$K_D^{PPCaM1N2C}$	Equilibrium binding of CaM1N2C to CaN		0.0311 μM	[4]
k_{on}^{PPCaM4}	CaM4 binding to CaN	0.0089-46.0 $\mu M^{-1}s^{-1}$	0.64 $\mu M^{-1}s^{-1}$	[9-11]
k_{off}^{PPCaM4}	CaM4 dissociation from CaN	0.000085-0.0039 s^{-1}	0.000319 s^{-1}	[9-11]
K_D^{PPCaM4}	Equilibrium binding of CaM4 to CaN	0.000028-0.024 μM	0.000498 μM	[9-11]
Ca^{2+} binding to CaN-CaM				
k_{on}^{PP1N}	1st Ca^{2+} binding to CaN-CaM N-terminus		100.0 $\mu M^{-1}s^{-1}$	[6]
k_{off}^{PP1N}	1st Ca^{2+} dissociation from CaN-CaM N-terminus		30.0 s^{-1}	[2]
K_D^{PP1N}	Equilibrium binding of 1st Ca^{2+} to CaN-CaM N-terminus		0.3 μM	[12]
k_{on}^{PP2N}	2nd Ca^{2+} binding to CaN-CaM N-terminus		150.0 $\mu M^{-1}s^{-1}$	[6]
k_{off}^{PP2N}	2nd Ca^{2+} dissociation from CaN-CaM N-terminus		12.0 s^{-1}	[2]
K_D^{PP2N}	Equilibrium binding of 2nd Ca^{2+} to CaN-CaM N-terminus		0.08 μM	[12]
k_{on}^{PP1C}	1st Ca^{2+} binding to CaN-CaM C-terminus		4.0 $\mu M^{-1}s^{-1}$	[6]
k_{off}^{PP1C}	1st Ca^{2+} dissociation from CaN-CaM C-terminus		0.4 s^{-1}	[2]
K_D^{PP1C}	Equilibrium binding of 1st Ca^{2+} to CaN-CaM C-terminus		0.1 μM	[12]
k_{on}^{PP2C}	2nd Ca^{2+} binding to CaN-CaM C-terminus		10.0 $\mu M^{-1}s^{-1}$	[6]
k_{off}^{PP2C}	2nd Ca^{2+} dissociation from CaN-CaM C-terminus		0.6 s^{-1}	[2]
K_D^{PP2C}	Equilibrium binding of 2nd Ca^{2+} to CaN-CaM C-terminus		0.06 μM	[12]
CaM binding to CaMKII				
k_{on}^{KCaM0}	CaM0 binding to CaMKII		0.0038 $\mu M^{-1}s^{-1}$	[1]
k_{off}^{KCaM0}	CaM0 dissociation from CaMKII		5.5 s^{-1}	[1]
K_D^{KCaM0}	Equilibrium binding of CaM0 to CaMKII		1.45 mM	[2]
k_{on}^{KCaM1N}	CaM1N binding to CaMKII		0.022 $\mu M^{-1}s^{-1}$	[1]
k_{off}^{KCaM1N}	CaM1N dissociation from CaMKII		3.1 s^{-1}	[1]
K_D^{KCaM1N}	Equilibrium binding of CaM1N to CaMKII		141.0 μM	[2]
k_{on}^{KCaM1C}	CaM1C binding to CaMKII		0.059 $\mu M^{-1}s^{-1}$	[1]
k_{off}^{KCaM1C}	CaM1C dissociation from CaMKII		6.1 s^{-1}	[1]
K_D^{KCaM1C}	Equilibrium binding of CaM1C to CaMKII		103.0 μM	[2]
$k_{on}^{KCaM1N1C}$	CaM1N1C binding to CaMKII		0.33 $\mu M^{-1}s^{-1}$	[1]
$k_{off}^{KCaM1N1C}$	CaM1N1C dissociation from CaMKII		3.4 s^{-1}	[1]
$K_D^{KCaM1N1C}$	Equilibrium binding of CaM1N1C to CaMKII		10.3 μM	[2]
k_{on}^{KCaM2N}	CaM2N binding to CaMKII		0.12 $\mu M^{-1}s^{-1}$	[1]

k_{off}^{KCaM2N}	CaM2N dissociation from CaMKII		1.7 s^{-1}	[1]
K_D^{KCaM2N}	Equilibrium binding of CaM2N to CaMKII	16.5-23.5 μM	14.2 μM	[1]
k_{on}^{KCaM2C}	CaM2C binding to CaMKII		0.92 $\mu M^{-1}s^{-1}$	[1]
k_{off}^{KCaM2C}	CaM2C dissociation from CaMKII		6.8 s^{-1}	[1]
K_D^{KCaM2C}	Equilibrium binding of CaM2C to CaMKII	1.6-8.4 μM	7.39 μM	[1]
$k_{on}^{KCaM2N1C}$	CaM2N1C binding to CaMKII		1.9 $\mu M^{-1}s^{-1}$	[1]
$k_{off}^{KCaM2N1C}$	CaM2N1C dissociation from CaMKII		1.9 s^{-1}	[1]
$K_D^{KCaM2N1C}$	Equilibrium binding of CaM2N1C to CaMKII		1.0 μM	[2]
$k_{on}^{KCaM1N2C}$	CaM1N2C binding to CaMKII		5.2 $\mu M^{-1}s^{-1}$	[1]
$k_{off}^{KCaM1N2C}$	CaM1N2C dissociation from CaMKII		3.8 s^{-1}	[1]
$K_D^{KCaM1N2C}$	Equilibrium binding of CaM1N2C to CaMKII		0.731 μM	[2]
k_{on}^{KCaM4}	CaM4 binding to CaMKII	14.0-60.0 $\mu M^{-1}s^{-1}$	30.0 $\mu M^{-1}s^{-1}$	[1]
k_{off}^{KCaM4}	CaM4 dissociation from CaMKII	1.1-2.3 s^{-1}	1.7 s^{-1}	[1]
K_D^{KCaM4}	Equilibrium binding of CaM4 to CaMKII	0.04-0.08 μM	0.0567 μM	[1]
Ca^{2+} binding to CaMKII-CaM				
k_{on}^{K1N}	1st Ca^{2+} binding to CaMKII-CaM N-terminus		76.0 $\mu M^{-1}s^{-1}$	[1]
k_{off}^{K1N}	1st Ca^{2+} dissociation from CaMKII-CaM N-terminus		300.0 s^{-1}	[1]
K_D^{K1N}	Equilibrium binding of 1st Ca^{2+} to CaMKII-CaM N-terminus		3.95 μM	[2]
k_{on}^{K2N}	2nd Ca^{2+} binding to CaMKII-CaM N-terminus		76.0 $\mu M^{-1}s^{-1}$	[1]
k_{off}^{K2N}	2nd Ca^{2+} dissociation from CaMKII-CaM N-terminus	6.0-60.0 s^{-1}	29.6 s^{-1}	[1]
K_D^{K2N}	Equilibrium binding of 2nd Ca^{2+} to CaMKII-CaM N-terminus		0.39 μM	[2]
k_{on}^{K1C}	1st Ca^{2+} binding to CaMKII-CaM C-terminus		44.0 $\mu M^{-1}s^{-1}$	[1]
k_{off}^{K1C}	1st Ca^{2+} dissociation from CaMKII-CaM C-terminus		33.0 s^{-1}	[1]
K_D^{K1C}	Equilibrium binding of 1st Ca^{2+} to CaMKII-CaM C-terminus		0.75 μM	[2]
k_{on}^{K2C}	2nd Ca^{2+} binding to CaMKII-CaM C-terminus		44.0 $\mu M^{-1}s^{-1}$	[1]
k_{off}^{K2C}	2nd Ca^{2+} dissociation from CaMKII-CaM C-terminus	0.49-4.9 s^{-1}	2.7 s^{-1}	[1]
K_D^{K2C}	Equilibrium binding of 2nd Ca^{2+} to CaMKII-CaM C-terminus		0.0614 μM	[2]
CaM binding to MLCK				
k_{on}^{MKCaM0}	CaM0 binding to MLCK		0.00717 $\mu M^{-1}s^{-1}$	[2]
k_{off}^{MKCaM0}	CaM0 dissociation from MLCK		0.132 s^{-1}	[3]
K_D^{MKCaM0}	Equilibrium binding of CaM0 to MLCK		18.4 μM	[4]
$k_{on}^{MKCaM1N}$	CaM1N binding to MLCK		0.00717 $\mu M^{-1}s^{-1}$	[2]
$k_{off}^{MKCaM1N}$	CaM1N dissociation from MLCK		0.132 s^{-1}	[3]
$K_D^{MKCaM1N}$	Equilibrium binding of CaM1N to MLCK		18.4 μM	[4]

$k_{on}^{MKCaM1C}$	CaM1C binding to MLCK		0.00717 $\mu M^{-1}s^{-1}$	[2]
$k_{off}^{MKCaM1C}$	CaM1C dissociation from MLCK		0.132 s^{-1}	[3]
$K_D^{MKCaM1C}$	Equilibrium binding of CaM1C to MLCK		18.4 μM	[4]
$k_{on}^{MKCaM1N1C}$	CaM1N1C binding to MLCK		0.00717 $\mu M^{-1}s^{-1}$	[2]
$k_{off}^{MKCaM1N1C}$	CaM1N1C dissociation from MLCK		0.132 s^{-1}	[3]
$K_D^{MKCaM1N1C}$	Equilibrium binding of CaM1N1C to MLCK		18.4 μM	[4]
$k_{on}^{MKCaM2N}$	CaM2N binding to MLCK		2.34 $\mu M^{-1}s^{-1}$	[2]
$k_{off}^{MKCaM2N}$	CaM2N dissociation from MLCK		0.132 s^{-1}	[3]
$K_D^{MKCaM2N}$	Equilibrium binding of CaM2N to MLCK		0.0564 μM	[4]
$k_{on}^{MKCaM2C}$	CaM2C binding to MLCK		0.170 $\mu M^{-1}s^{-1}$	[2]
$k_{off}^{MKCaM2C}$	CaM2C dissociation from MLCK		0.132 s^{-1}	[3]
$K_D^{MKCaM2C}$	Equilibrium binding of CaM2C to MLCK		0.776 μM	[4]
$k_{on}^{MKCaM2N1C}$	CaM2N1C binding to MLCK		2.34 $\mu M^{-1}s^{-1}$	[2]
$k_{off}^{MKCaM2N1C}$	CaM2N1C dissociation from MLCK		0.132 s^{-1}	[3]
$K_D^{MKCaM2N1C}$	Equilibrium binding of CaM2N1C to MLCK		0.0564 μM	[4]
$k_{on}^{MKCaM1N2C}$	CaM1N2C binding to MLCK		0.170 $\mu M^{-1}s^{-1}$	[2]
$k_{off}^{MKCaM1N2C}$	CaM1N2C dissociation from MLCK		0.132 s^{-1}	[3]
$K_D^{MKCaM1N2C}$	Equilibrium binding of CaM1N2C to MLCK		0.776 μM	[4]
k_{on}^{MKCaM4}	CaM4 binding to MLCK	28.0-110.0 $\mu M^{-1}s^{-1}$	55.5 $\mu M^{-1}s^{-1}$	[13-15]
k_{off}^{MKCaM4}	CaM4 dissociation from MLCK	0.031-0.56 s^{-1}	0.132 s^{-1}	[13-15]
K_D^{MKCaM4}	Equilibrium binding of CaM4 to MLCK	0.0011-0.22 μM	0.00238 μM	[13-15]
Ca^{2+} binding to MLCK-CaM				
k_{on}^{MK1N}	1st Ca^{2+} binding to MLCK-CaM N-terminus		100.0 $\mu M^{-1}s^{-1}$	[6]
k_{off}^{MK1N}	1st Ca^{2+} dissociation from MLCK-CaM N-terminus		2500.0 s^{-1}	[7]
K_D^{MK1N}	Equilibrium binding of 1st Ca^{2+} to MLCK-CaM N-terminus		25.0 μM	[2]
k_{on}^{MK2N}	2nd Ca^{2+} binding to MLCK-CaM N-terminus		150.0 $\mu M^{-1}s^{-1}$	[6]
k_{off}^{MK2N}	2nd Ca^{2+} dissociation from MLCK-CaM N-terminus	2.3-12.5 s^{-1}	2.3 s^{-1}	[15-18]
K_D^{MK2N}	Equilibrium binding of 2nd Ca^{2+} to MLCK-CaM N-terminus		0.015 μM	[2]
k_{on}^{MK1C}	1st Ca^{2+} binding to MLCK-CaM C-terminus		4.0 $\mu M^{-1}s^{-1}$	[6]
k_{off}^{MK1C}	1st Ca^{2+} dissociation from MLCK-CaM C-terminus		40.0 s^{-1}	[7]
K_D^{MK1C}	Equilibrium binding of 1st Ca^{2+} to MLCK-CaM C-terminus		10.0 μM	[2]
k_{on}^{MK2C}	2nd Ca^{2+} binding to MLCK-CaM C-terminus		10.0 $\mu M^{-1}s^{-1}$	[6]
k_{off}^{MK2C}	2nd Ca^{2+} dissociation from MLCK-CaM C-terminus	0.39-0.7 s^{-1}	0.39 s^{-1}	[15-18]
K_D^{MK2C}	Equilibrium binding of 2nd Ca^{2+} to MLCK-CaM C-terminus		0.039 μM	[2]

CaM binding to Ng				
k_{on}^{NgCaM0}	CaM0 binding to Ng		28.0 $\mu M^{-1}s^{-1}$	[19]
k_{off}^{NgCaM0}	CaM0 dissociation from Ng		36.0 s^{-1}	[19]
K_D^{NgCaM0}	Equilibrium binding of CaM0 to Ng		1.29 μM	[19]
$k_{on}^{NgCaM1N}$	CaM1N binding to Ng		28.0 $\mu M^{-1}s^{-1}$	[19]
$k_{off}^{NgCaM1N}$	CaM1N dissociation from Ng		36.0 s^{-1}	[19]
$K_D^{NgCaM1N}$	Equilibrium binding of CaM1N to Ng		1.29 μM	[19]
$k_{on}^{NgCaM1C}$	CaM1C binding to Ng		23.0 $\mu M^{-1}s^{-1}$	[19]
$k_{off}^{NgCaM1C}$	CaM1C dissociation from Ng		35.0 s^{-1}	[19]
$K_D^{NgCaM1C}$	Equilibrium binding of CaM1C to Ng		1.52 μM	[19]
$k_{on}^{NgCaM1N1C}$	CaM1N1C binding to Ng		23.0 $\mu M^{-1}s^{-1}$	[19]
$k_{off}^{NgCaM1N1C}$	CaM1N1C dissociation from Ng		35.0 s^{-1}	[19]
$K_D^{NgCaM1N1C}$	Equilibrium binding of CaM1N1C to Ng		1.52 μM	[19]
$k_{on}^{NgCaM2N}$	CaM2N binding to Ng		28.0 $\mu M^{-1}s^{-1}$	[19]
$k_{off}^{NgCaM2N}$	CaM2N dissociation from Ng		36.0 s^{-1}	[19]
$K_D^{NgCaM2N}$	Equilibrium binding of CaM2N to Ng		1.29 μM	[19]
$k_{on}^{NgCaM2C}$	CaM2C binding to Ng		2.0 $\mu M^{-1}s^{-1}$	[19]
$k_{off}^{NgCaM2C}$	CaM2C dissociation from Ng		136.0 s^{-1}	[19]
$K_D^{NgCaM2C}$	Equilibrium binding of CaM2C to Ng		68.0 μM	[19]
$k_{on}^{NgCaM2N1C}$	CaM2N1C binding to Ng		23.0 $\mu M^{-1}s^{-1}$	[19]
$k_{off}^{NgCaM2N1C}$	CaM2N1C dissociation from Ng		35.0 s^{-1}	[19]
$K_D^{NgCaM2N1C}$	Equilibrium binding of CaM2N1C to Ng		1.52 μM	[19]
$k_{on}^{NgCaM1N2C}$	CaM1N2C binding to Ng		2.0 $\mu M^{-1}s^{-1}$	[19]
$k_{off}^{NgCaM1N2C}$	CaM1N2C dissociation from Ng		136.0 s^{-1}	[19]
$K_D^{NgCaM1N2C}$	Equilibrium binding of CaM1N2C to Ng		68.0 μM	[19]
k_{on}^{NgCaM4}	CaM4 binding to Ng		2.0 $\mu M^{-1}s^{-1}$	[19]
k_{off}^{NgCaM4}	CaM4 dissociation from Ng		136.0 s^{-1}	[19]
K_D^{NgCaM4}	Equilibrium binding of CaM4 to Ng		68.0 μM	[19]
Ca^{2+} binding to Ng-CaM				
k_{on}^{Ng1N}	1st Ca^{2+} binding to Ng-CaM N-terminus		100.0 $\mu M^{-1}s^{-1}$	[19]
k_{off}^{Ng1N}	1st C a^{2+} dissociation from Ng-CaM N-terminus		2500.0 s^{-1}	[19]
K_D^{Ng1N}	Equilibrium binding of 1st Ca^{2+} to Ng-CaM N-terminus		25.0 μM	[19]
k_{on}^{Ng2N}	2nd Ca^{2+} binding to Ng-CaM N-terminus		150.0 $\mu M^{-1}s^{-1}$	[19]
k_{off}^{Ng2N}	2nd Ca^{2+} dissociation from Ng-CaM N-terminus		750.0 s^{-1}	[19]
K_D^{Ng2N}	Equilibrium binding of 2nd Ca^{2+} to Ng-CaM N-terminus		5.0 μM	[19]
k_{on}^{Ng1C}	1st Ca^{2+} binding to Ng-CaM C-terminus		426.0 $\mu M^{-1}s^{-1}$	[19]
k_{off}^{Ng1C}	1st Ca^{2+} dissociation from Ng-CaM C-terminus		5830.0 s^{-1}	[19]

K_D^{Ng1C}	Equilibrium binding of 1st Ca^{2+} to Ng-CaM C-terminus		13.7 μM	[19]
k_{on}^{Ng2C}	2nd Ca^{2+} binding to Ng-CaM C-terminus		21.5 $\mu M^{-1}s^{-1}$	[19]
k_{off}^{Ng2C}	2nd Ca^{2+} dissociation from Ng-CaM C-terminus		418.0 s^{-1}	[19]
K_D^{Ng2C}	Equilibrium binding of 2nd Ca^{2+} to Ng-CaM C-terminus		19.4 μM	[19]
CaM binding to NOS				
$k_{on}^{NOSCaM0}$	CaM0 binding to NOS		0.135 $\mu M^{-1}s^{-1}$	[2]
$k_{off}^{NOSCaM0}$	CaM0 dissociation from NOS		0.01 s^{-1}	[3]
$K_D^{NOSCaM0}$	Equilibrium binding of CaM0 to NOS		0.074 μM	[4]
$k_{on}^{NOSCaM1N}$	CaM1N binding to NOS		0.135 $\mu M^{-1}s^{-1}$	[2]
$k_{off}^{NOSCaM1N}$	CaM1N dissociation from NOS		0.01 s^{-1}	[3]
$K_D^{NOSCaM1N}$	Equilibrium binding of CaM1N to NOS		0.074 μM	[4]
$k_{on}^{NOSCaM1C}$	CaM1C binding to NOS		0.135 $\mu M^{-1}s^{-1}$	[2]
$k_{off}^{NOSCaM1C}$	CaM1C dissociation from NOS		0.01 s^{-1}	[3]
$K_D^{NOSCaM1C}$	Equilibrium binding of CaM1C to NOS		0.074 μM	[4]
$k_{on}^{NOSCaM1N1C}$	CaM1N1C binding to NOS		0.135 $\mu M^{-1}s^{-1}$	[2]
$k_{off}^{NOSCaM1N1C}$	CaM1N1C dissociation from NOS		0.01 s^{-1}	[3]
$K_D^{NOSCaM1N1C}$	Equilibrium binding of CaM1N1C to NOS		0.074 μM	[4]
$k_{on}^{NOSCaM2N}$	CaM2N binding to NOS		0.135 $\mu M^{-1}s^{-1}$	[2]
$k_{off}^{NOSCaM2N}$	CaM2N dissociation from NOS		0.01 s^{-1}	[3]
$K_D^{NOSCaM2N}$	Equilibrium binding of CaM2N to NOS		0.074 μM	[4]
$k_{on}^{NOSCaM2C}$	CaM2C binding to NOS		1.25 $\mu M^{-1}s^{-1}$	[2]
$k_{off}^{NOSCaM2C}$	CaM2C dissociation from NOS		0.01 s^{-1}	[3]
$K_D^{NOSCaM2C}$	Equilibrium binding of CaM2C to NOS		0.008 μM	[4]
$k_{on}^{NOSCaM2N1C}$	CaM2N1C binding to NOS		0.135 $\mu M^{-1}s^{-1}$	[2]
$k_{off}^{NOSCaM2N1C}$	CaM2N1C dissociation from NOS		0.01 s^{-1}	[3]
$K_D^{NOSCaM2N1C}$	Equilibrium binding of CaM2N1C to NOS		0.074 μM	[4]
$k_{on}^{NOSCaM1N2C}$	CaM1N2C binding to NOS		1.25 $\mu M^{-1}s^{-1}$	[2]
$k_{off}^{NOSCaM1N2C}$	CaM1N2C dissociation from NOS		0.01 s^{-1}	[3]
$K_D^{NOSCaM1N2C}$	Equilibrium binding of CaM1N2C to NOS		0.008 μM	[4]
$k_{on}^{NOSCaM4}$	CaM4 binding to NOS	0.11-660.0 $\mu M^{-1}s^{-1}$	1.25 $\mu M^{-1}s^{-1}$	[20-22]
$k_{off}^{NOSCaM4}$	CaM4 dissociation from NOS	0.0023-3.7 s^{-1}	0.01 s^{-1}	[20-22]
$K_D^{NOSCaM4}$	Equilibrium binding of CaM4 to NOS	0.005-5.6 μM	0.008 μM	[20-24]
Ca^{2+} binding to NOS-CaM				
k_{on}^{NOS1N}	1st Ca^{2+} binding to NOS-CaM N-terminus		100.0 $\mu M^{-1}s^{-1}$	[6]
k_{off}^{NOS1N}	1st Ca^{2+} dissociation from NOS-CaM N-terminus		2500.0 s^{-1}	[25]
K_D^{NOS1N}	Equilibrium binding of 1st Ca^{2+} to NOS-CaM N-terminus		25.0 μM	[2]
k_{on}^{NOS2N}	2nd Ca^{2+} binding to NOS-CaM N-terminus		150.0 $\mu M^{-1}s^{-1}$	[6]

k_{off}^{NOS2N}	2nd Ca^{2+} dissociation from NOS-CaM N-terminus		750.0 s^{-1}	[25]
K_D^{NOS2N}	Equilibrium binding of 2nd Ca^{2+} to NOS-CaM N-terminus		5.0 μM	[2]
k_{on}^{NOS1C}	1st Ca^{2+} binding to NOS-CaM C-terminus		4.0 $\mu M^{-1}s^{-1}$	[6]
k_{off}^{NOS1C}	1st Ca^{2+} dissociation from NOS-CaM C-terminus		40.0 s^{-1}	[7]
K_D^{NOS1C}	Equilibrium binding of 1st Ca^{2+} to NOS-CaM C-terminus		10.0 μM	[2]
k_{on}^{NOS2C}	2nd Ca^{2+} binding to NOS-CaM C-terminus		10.0 $\mu M^{-1}s^{-1}$	[6]
k_{off}^{NOS2C}	2nd Ca^{2+} dissociation from NOS-CaM C-terminus		1.0 s^{-1}	[25]
K_D^{NOS2C}	Equilibrium binding of 2nd Ca^{2+} to NOS-CaM C-terminus		0.1 μM	[2]

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[2] Calculated from the relationship $K_D = \frac{k_{off}}{k_{on}}$

[3] Assume that Ca^{2+} binding does not affect the rate of protein dissociation from CaM

[4] Calculated from the thermodynamic principle of microscopic reversibility

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[6] Assume that protein binding does not affect the rate of Ca^{2+} association to CaM

[7] Assume that protein binding does not affect the fast dissociation rate(s) of Ca^{2+} from CaM

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*Not used in calculating average value because study used oligopeptide instead of protein

†Used to establish equivalence of smooth muscle and hippocampal MLCK

‡Used to select rates of MLCK association to and dissociation from $Ca^{2+}{}_4$CaM

§Used to select rates of Ca^{2+} dissociation from NOS-CaM