

Cyclin	conc	0.01 μmoles
M*	conc	0.01 unitless
X*	conc	0.01 unitless

Process

Rate equation	Velocity	Parameter	Value
Cyclin synthesis			
k1	V1	k1	0.025 $\mu\text{moles} / \text{min}$
Cyclin degradation			
$v_{\text{max}2} \cdot X_a \cdot \text{Cyclin} / (\text{Km}2 + \text{cyclin})$	V2	$v_{\text{max}2}$	0.25 $\mu\text{moles} / \text{min}$
		Km2	0.02 μmoles
MPF activation			
$v_{\text{max}3} \cdot (\text{Cyclin} / (\text{Kc}3 + \text{Cyclin})) \cdot \text{Mi} / (\text{Km}3 + \text{Mi})$	V3	$v_{\text{max}3}$	3 /min
		Km3	0.005
		Kc3	0.5 μmoles
MPF inactivation			
$v_{\text{max}4} \cdot \text{Ma} / (\text{Km}4 + \text{Ma})$	V4	$v_{\text{max}4}$	1.5/min
		Km4	0.005
Protease activation			
$v_{\text{max}5} \cdot \text{Ma} \cdot \text{Xi} / (\text{Km}5 + \text{Xi})$	V5	$v_{\text{max}5}$	1/min
		Km5	0.005
Protease inactivation			
$v_{\text{max}6} \cdot X_a / (\text{Km}6 + X_a)$	V6	$v_{\text{max}6}$	0.5/min
		Km6	0.005