

$$k_1[\text{aa}]$$

$$k_2[\text{Y}]$$

$$k_3[\text{CP}][\text{Y}]$$

$$f([M])(\text{pM})$$

$$k_5[\sim\text{P}][\text{M}]$$

$$k_6[\text{M}]$$

$$k_7[\text{YP}]$$

$$k_8[\sim\text{P}][\text{C2}]$$

$$k_9[\text{CP}]$$

$$f([M]) = k_4' + k_4 \left(\frac{[\text{M}]}{[\text{CT}]} \right)^2$$