1 Lala

$$v = \frac{p}{q}$$
where
$$p$$
$$= E_0[A][B]k_1k_2k_3k_6k_{-8}\left(k_7 + k_{-4}\right)$$
and
$$q$$
$$= [A]^2k_1k_2k_4k_6k_{-8} + [A]^2k_1k_2k_4k_{-3}k_{-8} + [A]^2k_1k_4k_6k_7k_{-8}$$
$$+ [A]^2k_1k_4k_7k_{-3}k_{-8} + [A][B]k_1k_2k_3k_7k_{-8} + [A][B]k_1k_2k_3k_{-4}k_{-8}$$
$$+ [A][B]k_1k_3k_6k_7k_{-8} + [A][B]k_1k_3k_6k_{-4}k_{-8} + [A][B]k_2k_4k_6k_7k_8$$
$$+ [A][B]k_2k_4k_7k_8k_{-3} + [A][B]k_4k_6k_7k_8k_{-1} + [A][B]k_4k_7k_8k_{-1}k_{-3}$$
$$+ [A]k_1k_2k_6k_7k_{-8} + [A]k_1k_2k_6k_{-4}k_{-8} + [A]k_1k_2k_7k_{-3}k_{-8}$$
$$+ [A]k_1k_2k_{-3}k_{-4}k_{-8} + [A]k_1k_6k_7k_{-2}k_{-8} + [A]k_1k_6k_{-2}k_{-4}k_{-8}$$
$$+ [A]k_1k_7k_{-2}k_{-3}k_{-8} + [A]k_1k_{-2}k_{-3}k_{-4}k_{-8} + [A]k_2k_4k_6k_7k_{-8}$$
$$+ [A]k_2k_4k_7k_{-3}k_{-8} + [A]k_4k_6k_7k_{-1}k_{-8} + [A]k_4k_7k_{-1}k_{-3}k_{-8}$$
$$+ [B]^2k_2k_3k_6k_7k_8 + [B]^2k_2k_3k_6k_8k_{-4} + [B]^2k_3k_6k_7k_8k_{-1}$$
$$+ [B]^2k_3k_6k_8k_{-1}k_{-4} + [B]k_2k_3k_6k_7k_{-8} + [B]k_2k_3k_6k_{-4}k_{-8}$$
$$+ [B]k_3k_6k_7k_{-1}k_{-8} + [B]k_3k_6k_{-1}k_{-4}k_{-8} + [B]k_6k_7k_8k_{-1}k_{-2}$$
$$+ [B]k_6k_8k_{-1}k_{-2}k_{-4} + [B]k_7k_8k_{-1}k_{-2}k_{-3} + [B]k_8k_{-1}k_{-2}k_{-3}k_{-4}$$
$$+ k_6k_7k_{-1}k_{-2}k_{-8} + k_6k_{-1}k_{-2}k_{-4}k_{-8} + k_7k_{-1}k_{-2}k_{-3}k_{-8} + k_{-1}k_{-2}k_{-3}k_{-4}k_{-8}$$
$$\tag{1}$$

2   test

$$E \xrightarrow{k1[A]} E$$

$$EA/EP \xrightarrow{k_{-1}} EA/EP$$

$$EA/EP \xrightarrow{k2} EA/EP$$

$$E* \xrightarrow{k_{-2}} E*$$

$$E* \xrightarrow{k3[B]} E*$$

$$E*B/EQ \xrightarrow{k_{-3}} E*B/EQ$$

$$E*B/EQ \xrightarrow{k6} E*B/EQ$$

$$E \xrightarrow{k_{-6}[Q]} E$$

$$E* \xrightarrow{k4[A]} E*$$

$$E*A/EPR \xrightarrow{k_{-4}} E*A/EPR$$

$$E*A/EPR \xrightarrow{k7} E*A/EPR$$

$$E \xrightarrow{k_{-7}[P]} E$$

$$E \xrightarrow{k8[B]} E$$

$$EB \xrightarrow{k_{-8}} EB$$