$$\mathcal{HOM}(Y,Z)\otimes\mathcal{HOM}(X,Y) \xrightarrow{\varphi} \mathcal{HOM}(X,Z)$$
 
$$\mathcal{HOM}(Y,Z)\otimes\mathcal{HOM}(X,Y)\otimes X \xrightarrow{\varphi'} Z$$
 
$$\mathcal{HOM}(X,Y) \qquad \mathcal{HOM}(X,Y)\otimes X \xrightarrow{\varphi''} \mathcal{HOM}(\mathcal{HOM}(Y,Z),Z) \qquad \mathcal{HOM}(Y,Z)$$
 
$$\parallel \qquad \qquad \qquad \downarrow \qquad \qquad \uparrow \qquad \qquad \downarrow \qquad \qquad \qquad \qquad \downarrow \qquad \qquad \qquad \qquad \qquad \downarrow \qquad \qquad \qquad \qquad \downarrow \qquad \qquad \qquad \qquad \downarrow \qquad \qquad \qquad \qquad \qquad \downarrow \qquad \qquad$$