$$\operatorname{Hom}_{\mathbf{C}}(X;Y) \otimes \operatorname{Hom}_{\mathbf{C}}(Y;Y) \xrightarrow{m_{X,Y,Y}} \operatorname{Hom}_{\mathbf{C}}(X;Y) \xrightarrow{m_{X,X,Y}} \operatorname{Hom}_{\mathbf{C}}(X;X) \otimes \operatorname{Hom}_{\mathbf{C}}(X;Y)$$

$$\operatorname{Id}_{\operatorname{Hom}_{\mathbf{C}}(X;Y)} \otimes j_{Y} \uparrow \qquad \qquad \qquad \qquad \qquad \downarrow j_{X} \otimes \operatorname{Id}_{\operatorname{Hom}_{\mathbf{C}}(X;Y)}$$

$$\operatorname{Hom}_{\mathbf{C}}(X;Y) \otimes \mathbf{1} \qquad \qquad \qquad \qquad \qquad \downarrow j_{X} \otimes \operatorname{Id}_{\operatorname{Hom}_{\mathbf{C}}(X;Y)}$$