$$\begin{array}{ccc}
\mathrm{Hom}_{\mathbf{C}}\left(X;Y\right) \otimes \left(\mathrm{Hom}_{\mathbf{C}}\left(Y;Z\right) \otimes \mathrm{Hom}_{\mathbf{C}}\left(Z;W\right)\right) & \xrightarrow{\mathrm{as}} & \left(\mathrm{Hom}_{\mathbf{C}}\left(X;Y\right) \otimes \mathrm{Hom}_{\mathbf{C}}\left(Y;Z\right)\right) \otimes \mathrm{Hom}_{\mathbf{C}}\left(Z;W\right) \\
\downarrow{\mathrm{Id}_{\mathbf{C}} \otimes m_{Y,Z,W}} & & \downarrow{m_{X,Y,Z} \otimes \mathrm{Id}_{\mathbf{C}}} \\
\mathrm{Hom}_{\mathbf{C}}\left(X;Y\right) \otimes \mathrm{Hom}_{\mathbf{C}}\left(Y;W\right) \xrightarrow{m_{X,Y,W}} \mathrm{Hom}_{\mathbf{C}}\left(X;W\right) \xleftarrow{m_{X,Z,W}} \mathrm{Hom}_{\mathbf{C}}\left(X;Z\right) \otimes \left(\mathrm{Hom}_{\mathbf{C}}\left(Z;W\right)\right)
\end{array}$$