

$$\begin{array}{ccc}
(X \otimes X) \otimes X & \xrightarrow{a} & X \otimes (X \otimes X) \xrightarrow{X \otimes y} X \otimes (X \otimes X) \xrightarrow{a^{-1}} (X \otimes X) \otimes X \\
y \otimes X \downarrow & & \downarrow y \otimes X \\
(X \otimes X) \otimes X & & (X \otimes X) \otimes X \\
a \downarrow & & \downarrow a \\
X \otimes (X \otimes X) & & X \otimes (X \otimes X) \\
X \otimes y \downarrow & & \downarrow X \otimes y \\
X \otimes (X \otimes X) & \xrightarrow{a^{-1}} (X \otimes X) \otimes X \xrightarrow{y \otimes X} (X \otimes X) \otimes X \xrightarrow{a} X \otimes (X \otimes X)
\end{array}$$