

$$\begin{array}{ccc}
(F(x) \otimes_{\mathbf{D}} F(y)) \otimes_{\mathbf{D}} F(z) & \xrightarrow{\alpha_{F(x), F(y), F(z)}^{\mathbf{D}}} & F(x) \otimes_{\mathbf{D}} (F(y) \otimes_{\mathbf{D}} F(z)) \\
\downarrow & & \downarrow \\
F(x \otimes_{\mathbf{C}} y) \otimes_{\mathbf{D}} F(z) & & F(x) \otimes_{\mathbf{D}} F(y \otimes_{\mathbf{C}} z) \\
\downarrow & & \downarrow \\
F((x \otimes_{\mathbf{C}} y) \otimes_{\mathbf{C}} z) & \xrightarrow{F(\alpha_{x,y,z}^{\mathbf{C}})} & F(x \otimes_{\mathbf{C}} (y \otimes_{\mathbf{C}} z))
\end{array}$$