$$I_{\mathbf{D}} \otimes_{\mathbf{D}} F(x) \xrightarrow{\epsilon \otimes \mathrm{id}} F(I_{\mathbf{C}}) \otimes_{\mathbf{D}} F(x) \qquad F(x) \otimes_{\mathbf{D}} I_{\mathbf{D}} \xrightarrow{\mathrm{id} \otimes \epsilon} F(x) \otimes_{\mathbf{D}} F(I_{\mathbf{C}})$$

$$\downarrow \qquad \qquad \downarrow \qquad \qquad \downarrow \qquad \qquad \downarrow$$

$$F(x) \xleftarrow{F(I_{\mathbf{C}}^{\mathsf{C}})} F(I_{\mathbf{C}} \otimes_{\mathbf{C}} x) \qquad F(x) \xleftarrow{F(r_{\mathbf{C}}^{\mathsf{C}})} F(x \otimes_{\mathbf{C}} I_{\mathbf{C}})$$