

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

$$\downarrow$$

$$F(x) \xleftarrow{F(l_x^{\mathbf{C}})} F(I_{\mathbf{C}} \otimes_{\mathbf{C}} x)$$

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

$$\downarrow$$

$$F(x) \xleftarrow{F(r_x^{\mathbf{C}})} F(x \otimes_{\mathbf{C}} I_{\mathbf{C}})$$