$$\mathbf{1_{D}} \otimes_{\mathbf{D}} F(X) \xrightarrow{\mathrm{iso}} \mathbf{\otimes_{\mathbf{D}}} \mathrm{id}_{F(X)} F(\mathbf{1_{C}}) \otimes_{\mathbf{D}} F(X) \qquad F(X) \otimes_{\mathbf{D}} \mathbf{1_{D}} \xrightarrow{\mathrm{id}_{F(X)}} \mathbf{\otimes_{\mathbf{D}}} \mathrm{iso} F(X) \otimes_{\mathbf{D}} F(\mathbf{1_{C}}) \\ \mathrm{lu_{\mathbf{D}}} \qquad \qquad \downarrow \mu_{\mathbf{1_{C}},X} \qquad \mathrm{ru_{\mathbf{D}}} \qquad \downarrow \mu_{X,\mathbf{1_{C}}} \\ F(X) \longleftarrow F(\mathrm{lu_{X}^{\mathbf{C}}}) \qquad F(\mathbf{1_{C}} \otimes_{\mathbf{C}} X) \qquad F(X) \longleftarrow F(\mathrm{ru_{X}^{\mathbf{C}}}) \qquad F(X \otimes_{\mathbf{C}} \mathbf{1_{C}})$$