

$$(x \otimes \mathbf{1}) \otimes y \xrightarrow{\alpha_{x, \mathbf{1}, y}} x \otimes (\mathbf{1} \otimes y)$$

$$\begin{array}{ccc} & & \\ \rho_x \otimes \text{id}_y & \searrow & \\ & x \otimes y & \swarrow \\ \text{id}_x \otimes \lambda_y & \swarrow & \end{array}$$