

$$\begin{aligned}
 & \begin{array}{c} b' \cdots b \\ \vdots \\ a \cdots a' \end{array} \xrightarrow{\eta} a \otimes \begin{array}{c} b' \cdots b \\ \vdots \\ a' \end{array} + a' \otimes \begin{array}{c} b' \cdots c \\ \vdots \\ a \end{array} + b \otimes \begin{array}{c} a' \cdots a \\ \vdots \\ b' \end{array} + b' \otimes \begin{array}{c} a' \cdots a \\ \vdots \\ b \end{array} \\
 & = a \otimes [[b', b], a] + a' \otimes [a, [b', c]] + b \otimes [[a', a], b'] + b' \otimes [b, [a', a]].
 \end{aligned}$$