

$$\begin{array}{ccc}
 & \mathbb{1} \boxtimes \mathbb{1}^{\sharp} \boxtimes \mathbb{1}^{\sharp} \xrightarrow{\quad} \mathbb{1}^{\sharp} & \\
 \mathbb{1} \boxtimes \mathbb{1} \boxtimes \mathbb{1} \boxtimes \mathbb{1}^{\sharp} & \xrightarrow{\quad} & \mathbb{1} \boxtimes \mathbb{1}^{\sharp} \\
 \downarrow & & \downarrow \\
 \mathbb{1} \boxtimes \mathbb{1}^{\sharp} & \xrightarrow{\quad} & \mathbb{1}^{\sharp} \\
 & \mathbb{1} \boxtimes \mathbb{1}^{\sharp} \boxtimes \mathbb{1} \xrightarrow{\text{bimod}} \mathbb{1}^{\sharp} &
 \end{array}$$