$$K \otimes \prod N_{\bullet} \longleftarrow M \otimes \prod N_{\bullet} \qquad (r_{1})$$

$$\beta \downarrow^{\downarrow} \qquad \qquad \downarrow^{\alpha}$$

$$\prod (K \otimes N_{\bullet}) \longleftarrow \prod (M \otimes N_{\bullet}) \qquad (r_{2})$$