$$\begin{array}{ccc} A & \xrightarrow{\eta_A} & TA \\ \mid & \mid & \mid \\ \operatorname{id}_A & \operatorname{id}_{TA} = T(\operatorname{id}_A) \\ \psi & \psi \\ A & \xrightarrow{\eta_A} & TA \end{array}$$