

$$\begin{array}{ccc}
 \mathbf{1} & & \\
 \downarrow \text{id}_a & \searrow \text{id}_{F(a)} & \\
 \text{Hom}_C(a, a) & \xrightarrow{F_{a,a}} & \text{Hom}_D(F(a), F(a))
 \end{array}$$