$$F(A) \odot F(B) \xrightarrow{\varphi_F} F(A \otimes B)$$

$$\downarrow^{\eta_A \odot \eta_B} \qquad \qquad \downarrow^{\eta_{A \otimes B}}$$

$$G(A) \odot G(B) \xrightarrow{\varphi_G} G(A \otimes B)$$