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Facile Synthesis of (*Z*)-*anti*-Homoallylic Alcohols from 3-(Pinacolatoboryl)allyl Alcohols, Aldehydes, and Triorganoboranes via a Palladium-Catalyzed Three-Component Reaction

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OH
$$R^{1} \longrightarrow B(pin) + R^{2}CHO + (R^{3})_{3}B \xrightarrow{Pd(OAc)_{2} (10 \text{ mol}\%)} R^{2} \longrightarrow R^{2}CHO + (R^{3})_{3}B$$

$$\frac{Pd(OAc)_{2} (10 \text{ mol}\%)}{PCyPh_{2} (20 \text{ mol}\%)} \times R^{2} \longrightarrow R^{2}CHO$$

$$\frac{Pd(OAc)_{2} (10 \text{ mol}\%)}{PCyPh_{2} (20 \text{ mol}\%)} \times R^{2} \longrightarrow R^{2}CHO$$

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