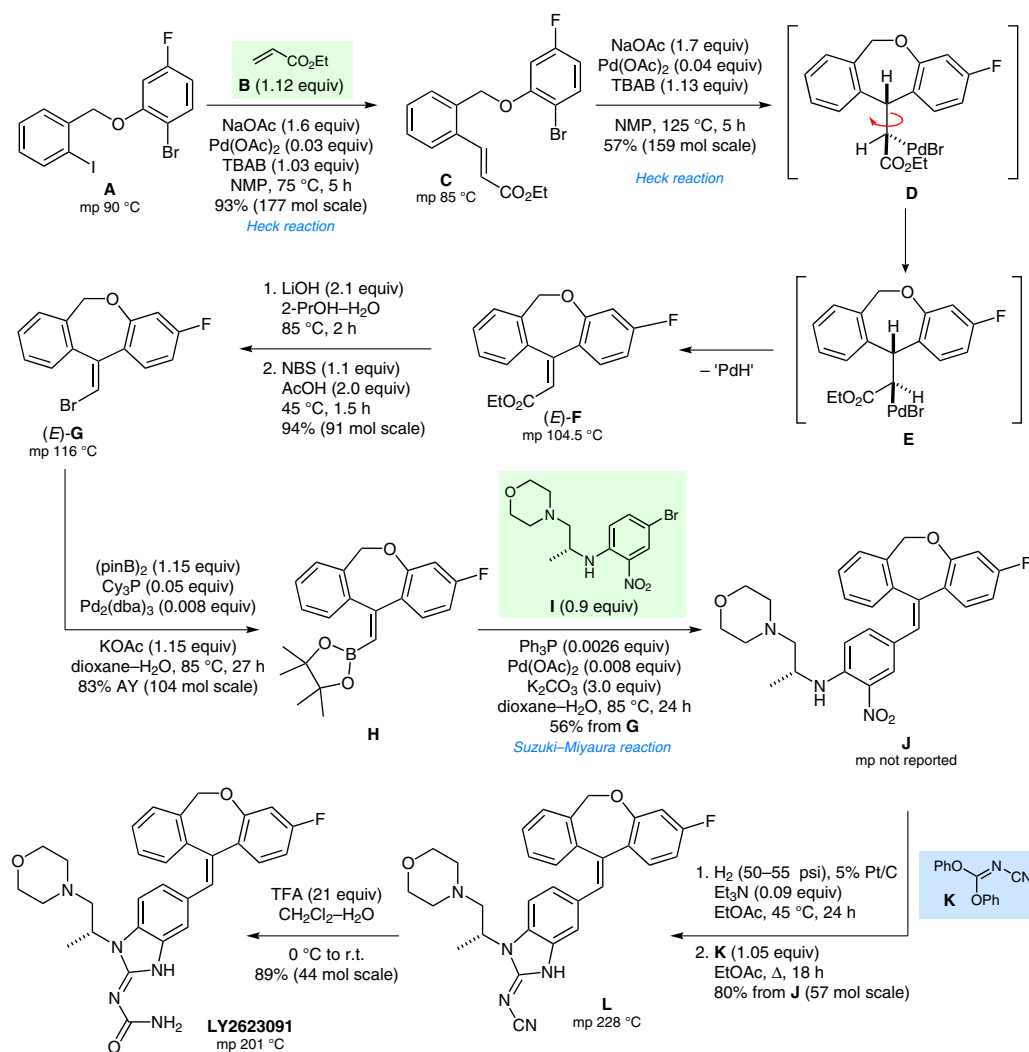


# Synthesis of LY2623091



**Significance:** LY2623091 is a mineralocorticoid receptor antagonist that was of interest for the treatment of resistant hypertension. The kilogram-scale synthesis depicted features two sequential Heck reactions to construct the (*E*)-dihydrodibenzo[*b,e*]oxepine ring system. Note the clean retention of stereochemistry in the conversion of (*E*)-**F** into bromoalkene (*E*)-**G**.

**Comment:** An investigation of the conversion of **A** into (*E*)-**F** through a one-pot, double Heck reaction revealed that the first Heck reaction (**A** → **C**) was fast and occurred at 60 °C whereas the second Heck reaction [**C** → (*E*)-**F**] required a much higher temperature (145 °C) owing to iodide acting as a catalyst poison. Better yields and stereoselectivity were obtained in the two-pot process shown.