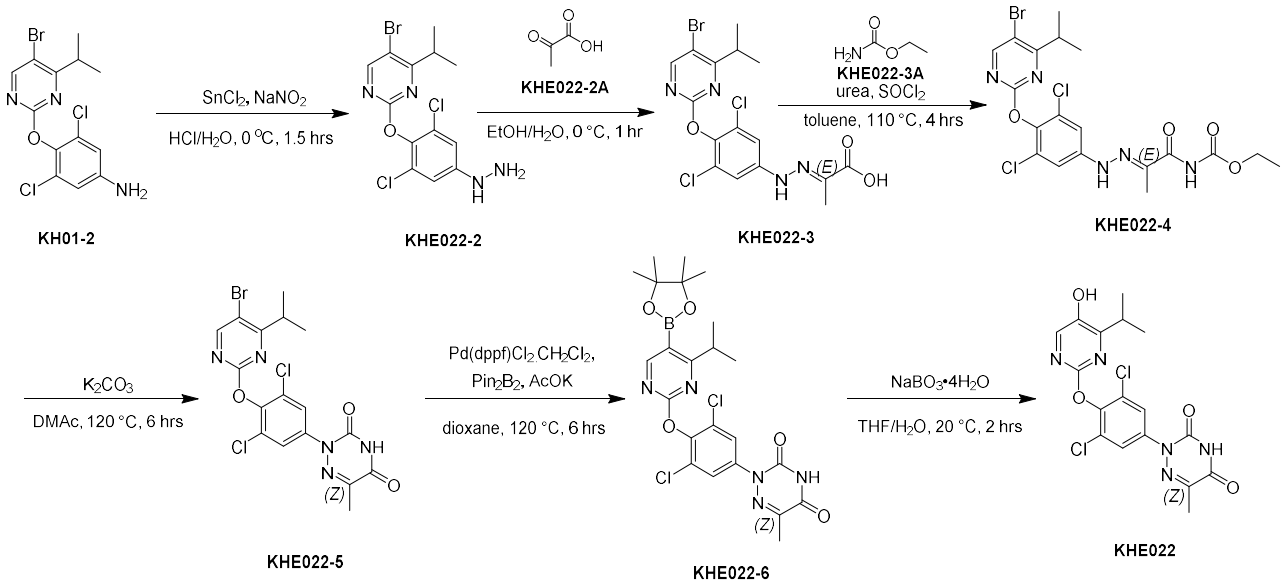
(0.9965 g, 7.665 mmol, 24 eq) were added in the reaction system, and stirred at room temperature overnight. TLC monitoring showed that a new spot was formed. The reaction solution was diluted with water and extracted with ethyl acetate (20 mL × 3). Organic phases were combined, dried with anhydrous sodium sulfate, filtered, and dried by rotary evaporation to obtain residues. The residues were purified by TLC plate to obtain yellow solids **KHE021-1** (80 mg, yield: 57.3%), and sampled and use LCMS for determining product signal. MS (ESI) m/z: 400.0 $[M+H]^+$.

Compound KHE021: compound **KHE021-1** (80 mg, 0.2 mmol) was dissolved in methanol (6 mL), and added with sodium hydroxide solution (1 ml, 1 M, aq). The reaction solution was stirred overnight at room temperature. TLC monitoring showed that the reaction was complete. The reaction solution was diluted with 10 ml of water, and the organic solvent in the reaction was directly dried by rotary evaporation. The pH was adjusted to 3-4, and then the reaction solution was extracted with ethyl acetate (20 mL × 3). Organic phases were combined, dried with anhydrous sodium sulfate and dried by rotary evaporation to obtain residues. The residues were purified with chromatoplate to obtain white solid **compound KHE021** (12 mg, yield: 15.5%). MS (ESI) m/z: 386.0 $[M+H]^+$. **^{1}H NMR (**DMSO-d_6, 400MHz): δ 9.87 (s, 1H), 7.94 (s, 1H), 6.65 (s, 2H), 5.53 (s, 2H), 3.23 - 3.28 (m, 1H), 1.11 (d, J = 6.8 Hz, 6H).

Example 46 Synthesis of compound KHE022



Compound KHE022-2: **KH01-2** (120 g, 318 mmol, 1.0 eq) was added into hydrochloric acid solution (12 M, 358 mL, 13.5 eq), stirred for 30 minutes, and cooled to 0℃. Sodium nitrite (24.1 g, 350 mmol, 1.1 eq) was dissolved in 50 mL of water, slowly added dropwise