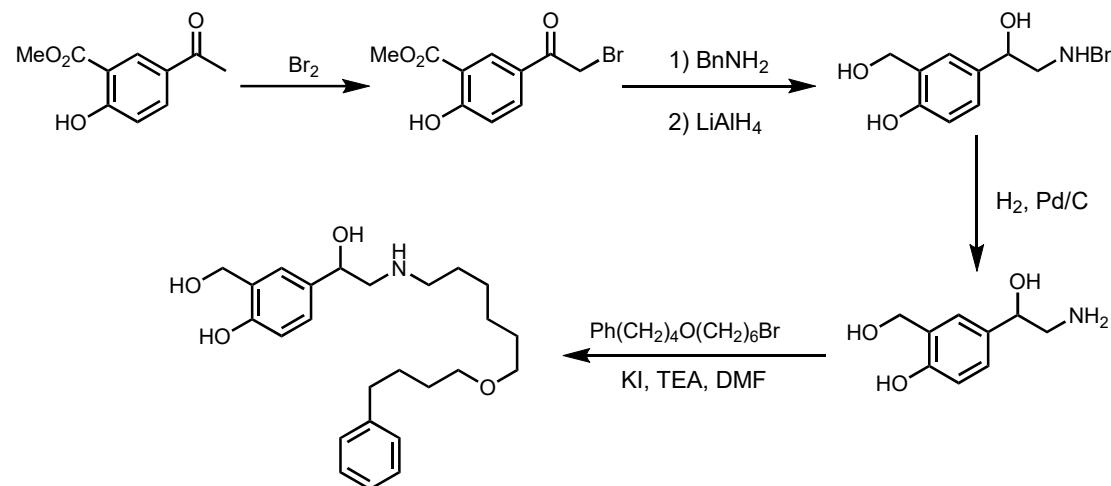
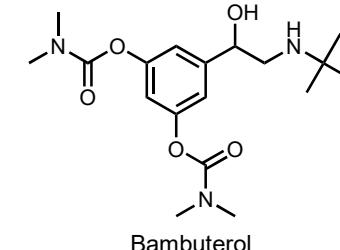
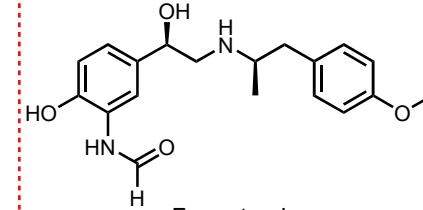
**Fast Facts:**

- Administered as a dry powder by inhaler. Generally marketed as the Xenofoate Salt.
- Bronchodilator, relaxes muscles in airway
- For use in severe persistent asthma and COPD
- Long-acting β_2 adrenergic receptor agonist (LABA); effects last for approximately 12 hours
- Highly selective for β_2 receptor; $EC_{50}=0.79\text{ nM}$
- Combination with fluticasone propionate is marketed as Adavir
- 1 inhalation (50 mcg) twice daily for maintenance.
- Predicted aqueous solubility of 2.3 $\mu\text{g/mL}$ (ALOGPS)
- (R)-Salmeterol is more potent, but drug is sold as a racemate



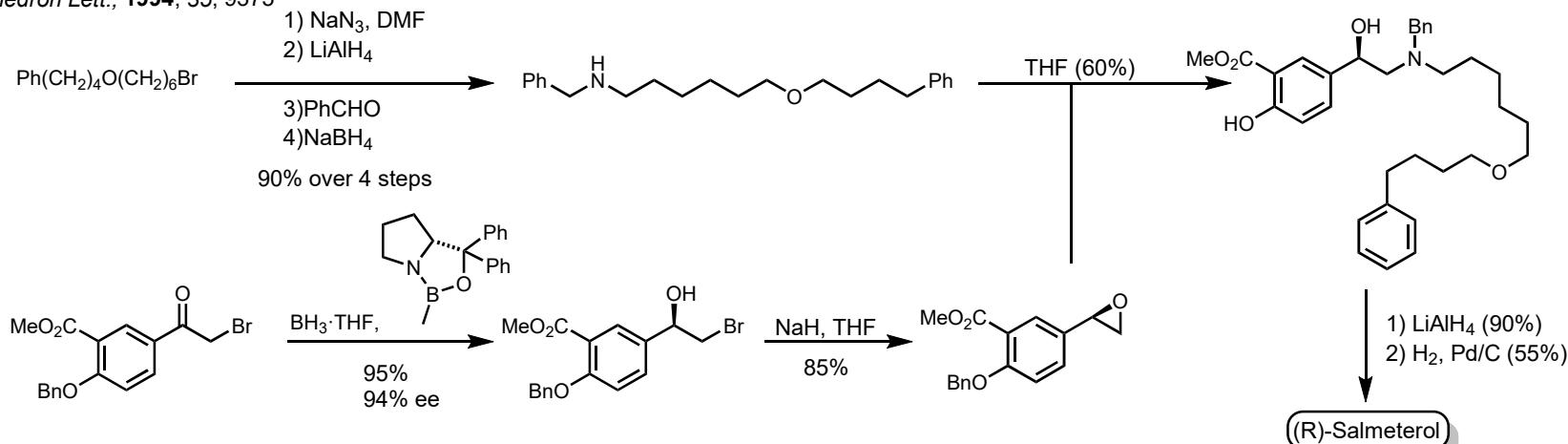
Original Patent Route: US 4992474

**Alternative LABA's:**

Assymmetric Routes:

Helquist and Coworker:

Tetrahedron Lett., 1994, 35, 9375



Ley and Co-workers: No Chromatographic Steps
Org. Lett., 2002, 4, 3793–3796

