

## **BAB 5**

### **KESIMPULAN DAN SARAN**

#### **5.1 Kesimpulan**

Berdasarkan penelitian yang telah dilakukan, maka dapat disimpulkan sebagai berikut:

1. Senyawa 2,2'-diklorodibenzalaseton dapat disintesis melalui reaksi kondensasi Claisen-schmidt secara konvensional dengan waktu pengadukan 30 menit dan menghasilkan rendemen sebesar 85,26%.
2. Senyawa 2,2'-diklorodibenzalaseton aktif sebagai antimalaria yang diuji dengan metode mikroskopis pewarnaan Giemsa dengan nilai  $IC_{50}$  sebesar 18,334  $\mu\text{g/ml}$ .
3. Substituen kloro pada senyawa 2,2'-diklorodibenzalaseton tidak menyebabkan peningkatan aktivitas antimalaria dibandingkan dengan senyawa dibenzalaseton yang ditinjau dari nilai  $IC_{50}$  yang 8,1 kali lebih besar dari dibenzalaseton.
4. Berdasarkan nilai  $IC_{50}$ , senyawa 2,2'-diklorodibenzalaseton kurang potensial dibandingkan terhadap klorokuin sebagai antimalaria

#### **5.2 Saran**

1. Dilakukan optimasi rendemen dengan memvariasikan pelarut rekristalisasi supaya menghasilkan rendemen yang lebih baik.
2. Dilakukan modifikasi lain pada senyawa induk dibenzalaseton untuk meningkatkan efektivitasnya sebagai antimalaria.

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