

BAB 5

KESIMPULAN DAN SARAN

5.1 Kesimpulan

1. Senyawa 2,2',4,4'-tetraklorodibenzalaseton dapat disintesis dengan mereaksikan 2,4-diklorobenzaldehida dan aseton dengan bantuan iradiasi gelombang mikro (waktu reaksi 8 menit dan daya 160 watt dengan persentase hasil rendemen 43,14%.)
2. Senyawa 2,2',4,4'-tetraklorodibenzalaseton memiliki aktivitas antimalaria dengan metode uji mikroskopis pewarnaan GIEMSA dengan IC_{50} sebesar 24,628 μ g/ml.
3. Senyawa 2,2',4,4'-tetraklorodibenzalaseton memiliki aktivitas antimalarial yang lebih rendah dibandingkan dengan dibenzalaseton ditinjau dari IC_{50} (nilai IC_{50} dibenzalaseton sebesar 2,734 μ g/ml)
4. Senyawa 2,2',4,4'-tetraklorodibenzalaseton memiliki aktivitas antimalaria yang lebih rendah dibandingkan dengan klorokuin ditinjau dari nilai IC_{50} (nilai IC_{50} klorokuin sebesar 0,014 μ g/ml)

5.2 Saran

1. Perlu digunakan pelarut rekristalisasi yang sesuai pada penelitian berikutnya untuk sintesis senyawa 2,2',4,4'-tetraklorodibenzalaseton.
2. Dilakukan sintesis dengan waktu pengadukan yang sama antar replikasi.
3. Dilakukan penggantian gugus pada senyawa sintesis.
4. Menggunakan metode lain untuk pengujian aktivitas antimalaria.

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