

## **BAB 5**

### **KESIMPULAN DAN SARAN**

#### **5.1 Kesimpulan**

Berdasarkan penelitian Perhitungan Energi Bebas Mip-Rapamycin dengan metode MMPBSA telah diperoleh hasil data sehingga dapat ditarik kesimpulan. Kesimpulan tersebut dapat dipaparkan sebagai berikut:

1. Perubahan energi bebas antara ikatan Mip-Rapamycin menggunakan metode MMPBSA mendapatkan hasil rata-rata  $-229,737$  kJ/mol yang menunjukkan bahwa perubahan energi bebas pengikatan.
2. Residu yang memberikan kontribusi energi bebas besar pada interaksi dengan protein Mip adalah F77, Q81, V82, I83 dan Y109.

#### **5.2 Saran**

Penelitian ini dapat dilanjutkan dengan :

Perhitungan energi bebas ikatan Rapamycin dengan protein FKBP12 untuk dibandingkan dengan ikatan kompleks Mip-Rapamycin dengan menggunakan metode MMPBSA.

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