



Figure S13: **Dihedral angles of linkages between the rings of paromomycin.** The angles ϕ and ψ are defined as in [Asensio, J. L. *et al.*, Chemistry. **2002**, 8, 5228-40], an NMR study of neomycin, which differs from paromomycin only with one chemical group, having OH instead of NH_3^+ . The values were collected during two independent 10-ns production phases of MD of paromomycin in water (the two runs started from the same minimized structure but with different initial velocities).