



**Supplementary Figure S1. Structural model of E102Q effects on S1R association with the membrane in the presence of bound NE-100.**

Structure of wild type hS1R bound to NE100 (white) from PDB file 6DK0. E102Q mutation was introduced by Coot and resulting effects on membrane association was calculated by EMBEDDED. Predicted conformation of hS1R-E102Q in complex with NE-100 is shown (orange).