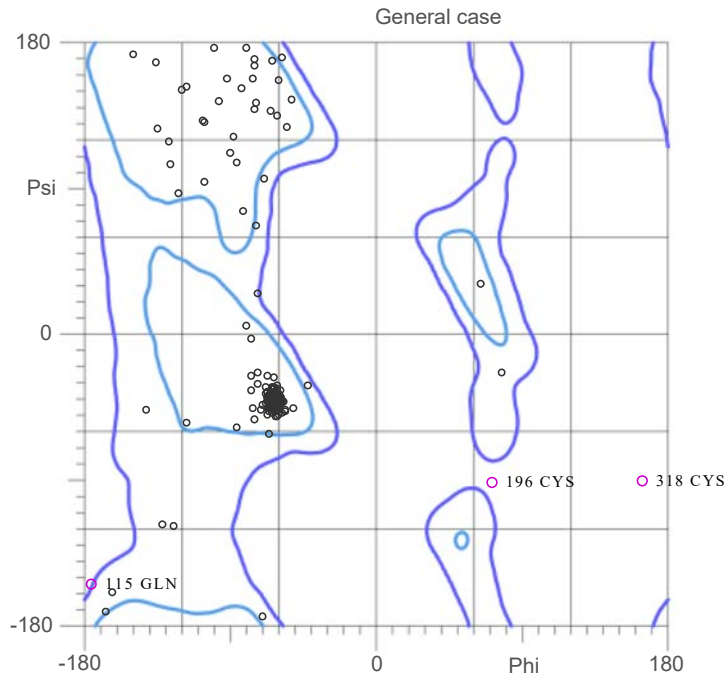


## **Supporting Information**

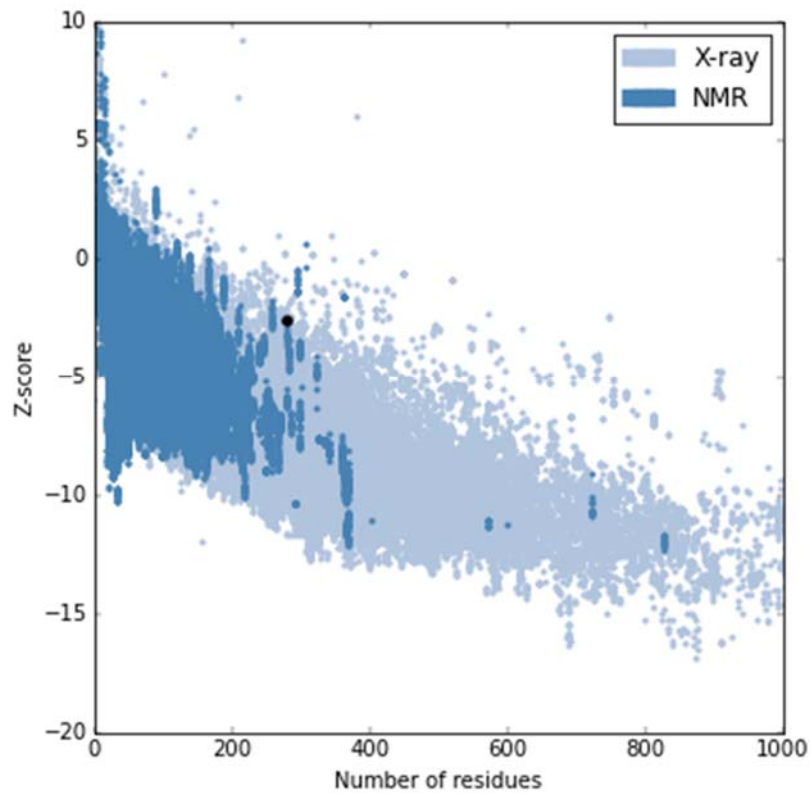
# **Insights into the Allosteric Mechanism of Setmelanotide (RM-493) as a Potent and First-in-class Melanocortin-4 Receptor (MC4R) Agonist to Treat Rare Genetic Disorders of Obesity through an *in silico* Approach**

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**Figure S1.** Ramachandran plot generated for generated homology model by molprobity. 93.2% (261/280) of all residues were in favored (98%) regions. 98.6% (276/280) of all residues were in allowed (>99.8%) regions



**Figure S2.** MC4R homology model ProSA plot. Overall model quality z-score is -2.56, which falls into the range of scores typically found for native proteins of similar size.