Homology Modeling

GPR120 Model – GPCR Modeling

GPR120 is a member of the Class A GPCRs. It is gaining particular interest because it has been shown to be involved in the insulin-sensitizing effects of omega 3 fatty acids as well as inflammation. GPR120 dysfunction is responsible for reduced fat metabolism, thereby leading to obesity.





Loop Modeling

- In this example we will use the high precision loop modeling method Arnautova *et al* Proteins. 2010, 79:477.
- We will model a loop region in Anthrax Protective Antigen which contains a proline residue where the cis/trans conformation is not clear from the available X-ray crystal structures.
- We will determine the most energetically favorable conformation of the proline and the neighboring loop residues.

