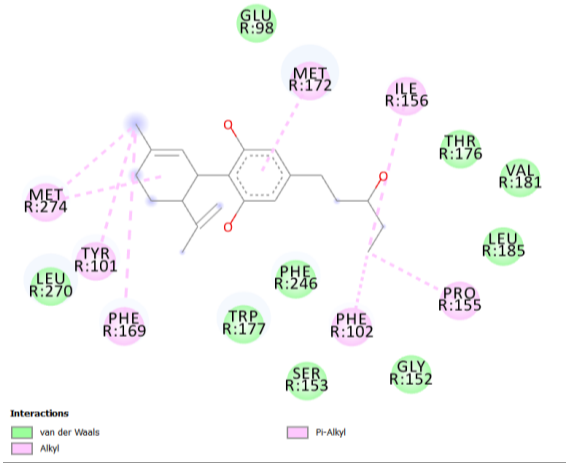
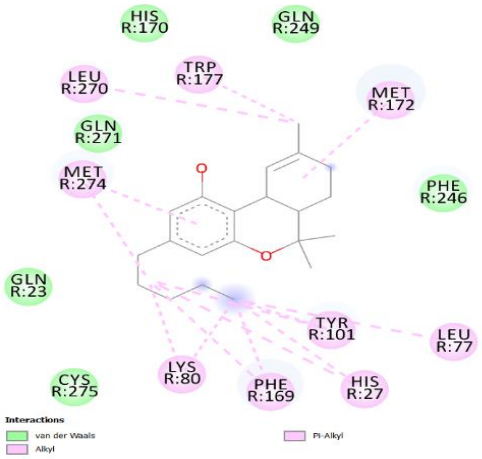
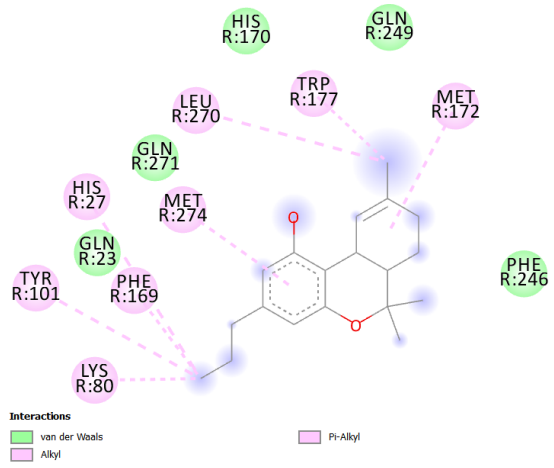
## Supplementary Information



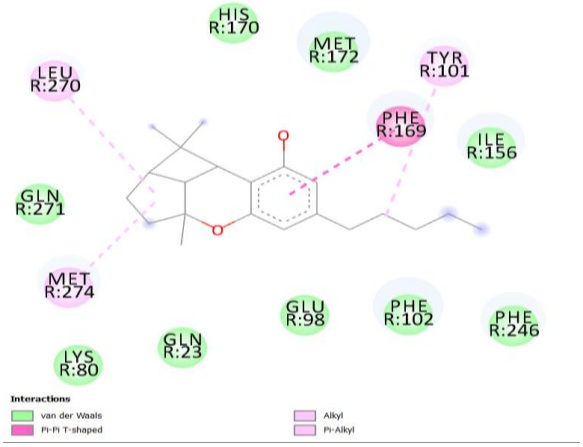

3'-HOCBD interacting with GPR55,
Binding affinity: -9.2



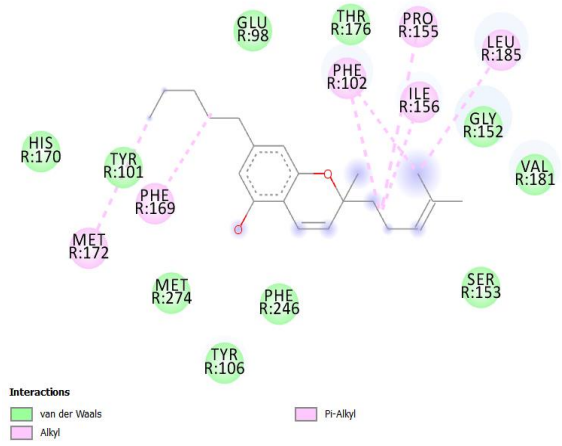

THC interacting with GPR55,
Binding affinity: -8.6



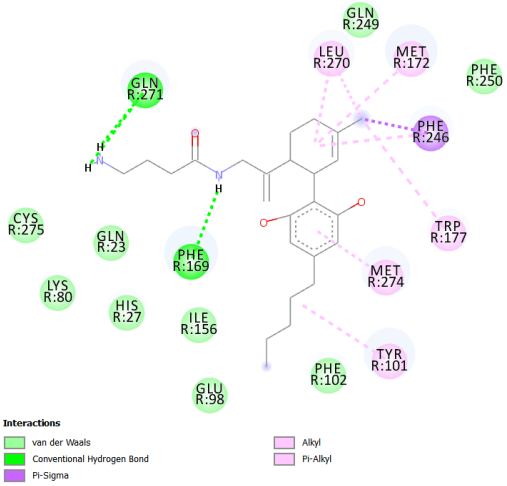

THCV interacting with GPR55,
Binding affinity: -8.6



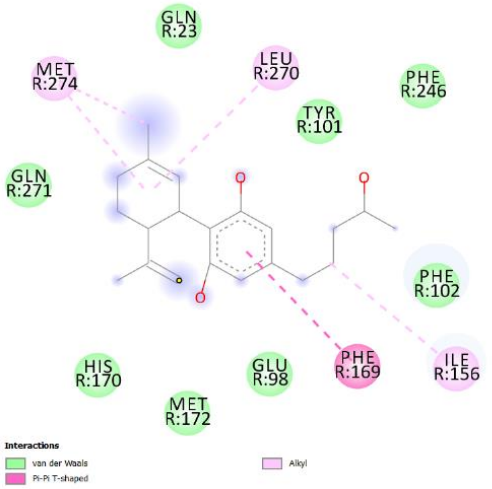

CBL interacting with GPR55,
Binding affinity: -8.5



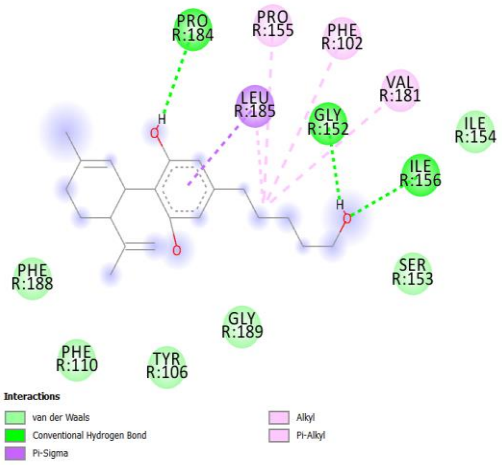

CBC interacting with GPR55,
Binding affinity: -8.4



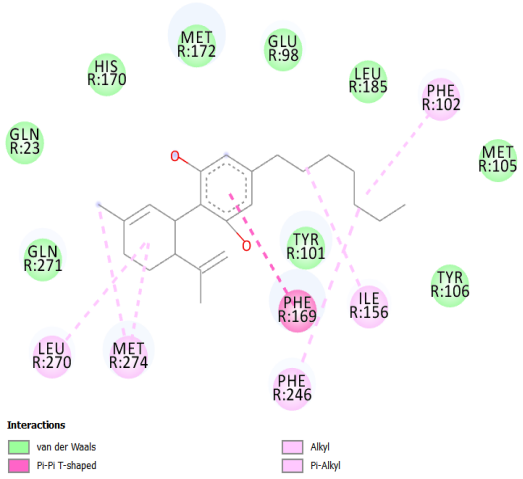

10-((4-Aminobutyryl)amino)cannabidiol
interacting with GPR55, Binding affinity: -8



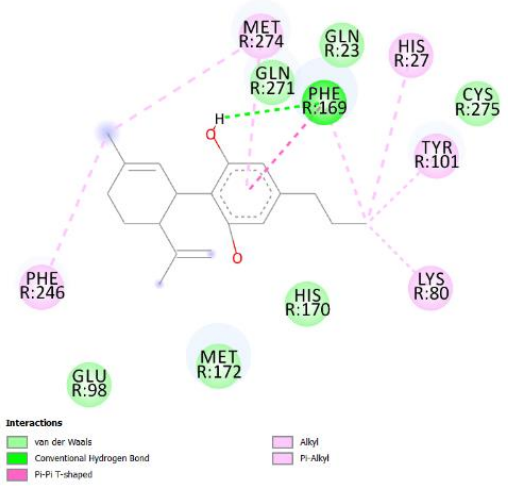

4'-HOCBD interacting with GPR55,
Binding affinity: -7.8



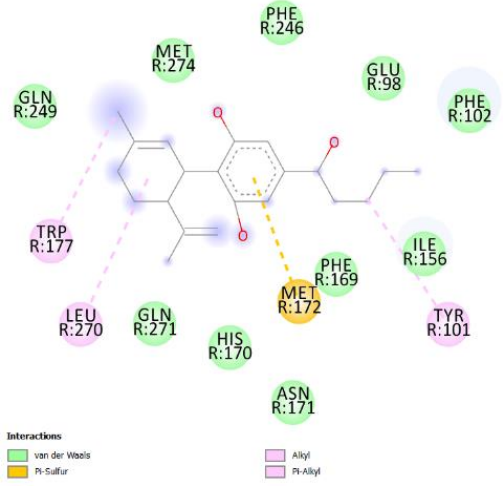

5'-HOCBD interacting with GPR55,
Binding affinity: -7.7



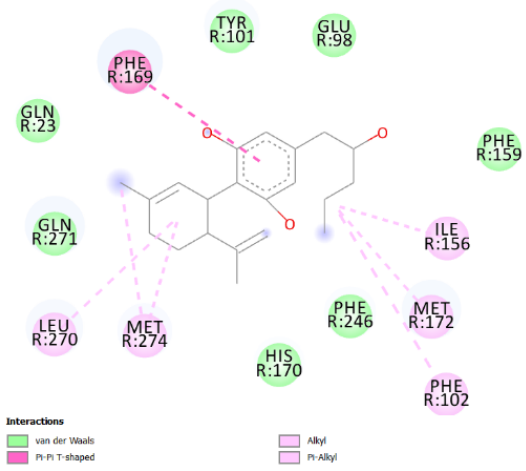

CBDP interacting with GPR55,
Binding affinity: -7.6



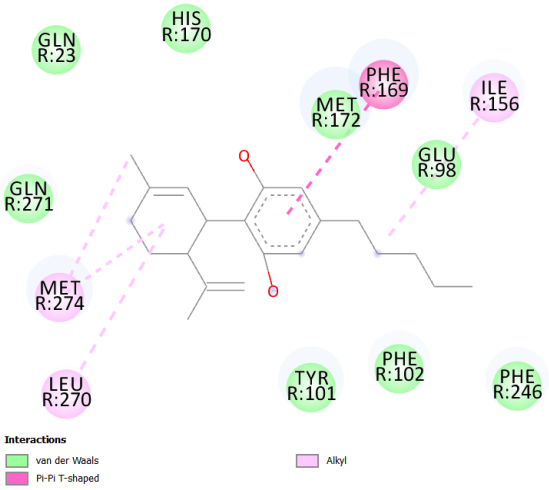

CBDV interacting with GPR55,
Binding affinity: -7.6



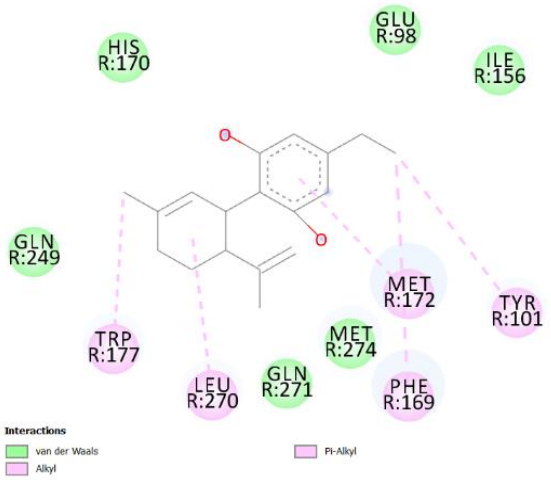

1'-HOCBD interacting with GPR55,
Binding affinity: -7.5




2'-HOCBD interacting with GPR55,
Binding affinity: -7.5




CBD interacting with GPR55,
Binding affinity: -7.3




CBDE interacting with GPR55,
Binding affinity: -7.2

**Supplementary materials Figure S1** 2D interaction maps of ligands with the GPR55 receptor, generated from docking complexes using Discovery Studio Visualizer [40].