Supplementary Table S7. List of peptides used for virtual screening and the respective docking energies against TLR2 receptor.

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| Peptide ID | Peptide Sequence | Binding energy (kcal/mol) |
| PEP\_01 | LPIFVGTVSLAMRDYRGLGE | -7.4 |
| PEP\_02 | GLKGAFSTAHKDGARVGFAKRPCCNSWRGMP | -6.3 |
| PEP\_03 | RPCCNSWRGMPSGHAGGAFS | -6.1 |
| PEP\_04 | YYRYGWKPALP | -5.7 |
| PEP\_05 | LLLWVYPLKSEPINEGAYI | -6 |
| PEP\_06 | LWVYPLKSEPINEGAYILEE | -6.9 |
| PEP\_07 | YKPKRWMLYPEISSDFKGSS | -4.2 |
| PEP\_08 | FLSLLLW | -5.5 |
| PEP\_09 | STAHKDG | -5.4 |
| PEP\_10 | PLKSEPI | -5.2 |
| PEP\_11 | AMRDYRG | -5.5 |
| PEP\_12 | TAHKDG | -4.7 |
| PEP\_13 | YYRYGW | -6.7 |
| PEP\_14 | FTSRYKPKRWML | -5.8 |
| PEP\_15 | SDFKGSSR | -5.2 |
| PEP\_16 | GLFLSLLLWVYPL | -5.9 |
| PEP\_17 | VLRFLPIFVGTV | -5.9 |
| PEP\_18 | TQGVIYG | -5.7 |
| PEP\_19 | AGFVYYR | -6.9 |
| PEP\_20 | ALPVIALAIL | -4.6 |
| PEP\_21 | RVVAGQH | -5.4 |
| PEP\_22 | ILQVTIGSL | -6.1 |
| PEP\_23 | FAYLFT | -5.5 |
| PEP\_24 | LLLWVYP | -6.3 |
| PEP\_25 | FKGSSRY | -5.1 |
| PEP\_26 | VIALAIL | -5.7 |
| PEP\_27 | PSGHAGG | -5.2 |
| PEP\_28 | FSAAGFVYY | -4.6 |
| PEP\_29 | FLSLLLWVY | -6.3 |
| PEP\_30 | TVSLAMRDY | -5.3 |
| PEP\_31 | FAYLFTSRY | -6.9 |
| PEP\_32 | SLIAWGFAY | -6.5 |
| PEP\_33 | TLVTQGVIY | -4.8 |
| PEP\_34 | YKPKRWMLY | -5.9 |
| PEP\_35 | AAGFVYYRY | -5.8 |