**Table S11** Kinetics of drug release from optimized TFs and TFG F2

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | Zero-order | | First-order | | Higuchi Model | | Korsmeyer-Peppas model | | Hixson-Crowell model | | | Mechanism of drug release | |
| K0 | R2 | K1 | R2 | KH | R2 | Kkp | R2 | KHC | R2 | n | | R2 |
|  | optimized TFs | 1.420 | 0.726 | 0.015 | 0.878 | 11.115 | 0.901 | 0.408 | 0.898 | 0.038 | 0.558 | 0.541 | | 0.913 |
| TFG F2 | 0.998 | 0.763 | 0.007 | 0.857 | 7.686 | 0.916 | 0.338 | 0.906 | 0.033 | 0.578 | 0.388 | | 0.906 |
| Drug permeation across the skin | | | | | | | | | | | | | | |
|  | TFG F2 | 1.993 | 0.980 | 0.016 | 0.983 | 13.466 | 0.987 | 0.613 | 0.977 | 0.067 | 0.861 | 0.599 | | 0.970 |