**Supplementary Table S2.** *In silicon* ModDock molecular docking scores (kJ/mol) of *N*-aryl-2-(2-methylquinazolin-4(3*H*)-yl)acetamides with relevant protein targets.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | *An. gambiae* | *D. melanogaster* | *L. stagnalis* | *L. stagnalis* | *An. gambiae* | *An. gambiae* |
|  |  | AChE | AChE | AChBP | AChBP | ACE2 | ACE2 |
| Compound | MW | 2AZG | 6XYU | 2ZJV | 2ZJU | 6S1Y | 6S1Z |
| **4a** | 358.19 | -91.6 | -115.4 | -110.6 | -113.0 | -88.9 | -90.5 |
| **4b** | 313.74 | -96.8 | -120.2 | -116.9 | -119.1 | -93.5 | -92.1 |
| **4c** | 313.74 | -97.0 | -118.0 | -115.0 | -118.2 | -95.4 | -91.4 |
| **4d** | 313.74 | -113.0 | -117.7 | -111.5 | -117.9 | -97.5 | -106.9 |
| **4e** | 309.32 | -116.8 | -126.9 | -118.6 | -120.0 | -99.7 | -102.1 |
| **4f** | 293.32 | -113.0 | -125.3 | -118.8 | -121.3 | -104.1 | -101.5 |
| **4g** | 293.32 | -115.7 | -122.1 | -113.8 | -120.9 | -99.5 | -110.7 |
| **4h** | 279.29 | -115.4 | -119.3 | -120.6 | -121.1 | -99.6 | -106.3 |
| **4i** | 324.29 | -98.6 | -122.8 | -116.4 | -126.1 | -100.2 | -98.3 |
|  | *Ae. aegypti* | *Ae. aegypti* | *Ae. aegypti* | *Cx. quinquefasciatus* | *Ae. aegypti* | *Ae. aegypti* | *Ae. aegypti* |
|  | aaNAT | aaNAT | aaNAT | CBEB2 | D7SP | D7SP | GSTe2 |
| Compound | 4FD4 | 4FD5 | 4FD6 | 5W1U | 3BKS | 3DXL | 5FT3 |
| **4a** | -105.2 | -84.3 | -82.0 | -98.5 | -89.8 | -89.7 | -84.8 |
| **4b** | -109.8 | -88.2 | -86.8 | -103.8 | -93.4 | -95.1 | -88.7 |
| **4c** | -95.7 | -88.7 | -92.7 | -100.8 | -96.7 | -103.3 | -89.0 |
| **4d** | -102.7 | -87.1 | -83.0 | -101.5 | -97.6 | -101.9 | -87.7 |
| **4e** | -106.7 | -98.2 | -91.0 | -111.2 | -102.9 | -105.0 | -90.4 |
| **4f** | -112.5 | -109.4 | -92.5 | -103.5 | -96.6 | -100.1 | -93.3 |
| **4g** | -108.4 | -91.4 | -86.3 | -105.2 | -101.8 | -93.6 | -90.4 |
| **4h** | -103.8 | -91.1 | -88.1 | -102.0 | -97.5 | -110.0 | -94.3 |
| **4i** | -104.8 | -100.7 | -98.4 | -116.3 | -110.6 | -107.8 | -94.4 |
|  | *Ae. aegypti* | *Ae. aegypti* | *Ae. aegypti* | *Ae. aegypti* | *Ae. aegypti* | *Cx. quinquefasciatus* | *Ae. aegypti* |
|  | OBP | OBP | OBP | OBP | OBP | OBP | SCP2 |
| Compound | 3K1E | 6OII | 6OMW | 6OPB | 6P2E | 3OGN | 2QZT |
| **4a** | -105.3 | -99.5 | -105.4 | -102.0 | -87.0 | -100.4 | -83.8 |
| **4b** | -109.1 | -104.2 | -110.6 | -105.1 | -91.0 | -104.3 | -88.1 |
| **4c** | -104.6 | -99.7 | -108.3 | -107.2 | -89.8 | -100.8 | -90.2 |
| **4d** | -103.9 | -104.0 | -106.4 | -100.2 | -91.2 | -99.7 | -95.2 |
| **4e** | -112.3 | -108.8 | -113.0 | -106.4 | -93.5 | -112.7 | -90.8 |
| **4f** | -114.0 | -106.2 | -114.9 | -105.2 | -93.8 | -108.9 | -29.9 |
| **4g** | -109.6 | -106.9 | -111.5 | -104.3 | -94.1 | -105.6 | -98.1 |
| **4h** | -110.1 | -105.1 | -116.1 | -108.1 | -92.9 | -103.2 | -96.3 |
| **4i** | -116.9 | -108.1 | -116.4 | -110.2 | -94.1 | -118.5 | -101.5 |