**Supplementary Table 2:** Overview of all small molecule inhibitors used in this study.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Inhibitor name** | **Structure** | **MW [g/mol]** | **IC50 values** | **Reference** |
| G1-1 |  | 520.57 | CK1δ: 660 nMCK1ε: 4.120 nM | (García-Reyes et al., 2018) |
| G1-2 |  | 594.65 | CK1δ: 760 nMCK1ε: 1230 nM | (García-Reyes et al., 2018) |
| G1-3  |  | 602.59 | CK1δ: 330 nMCK1ε: nd | (García-Reyes et al., 2018) |
| G1-4 |  | 594.65 | CK1δ (rat): 380 nMM28FCK1δ (rat): 160 nMwtCK1ε: 3200 nM | \* |
| G1-5 |  | 486.55 | CK1δ (rat): 160 nMCK1δ (TV1): 380 nMCK1δ (TV2): 510 nMM28FCK1δ (rat): 120 nMwtCK1ε: 780 nM | \* |
| G2-1 |  | 522.52 | CK1δ: 1.724 nMCK1ε: nd | (Liu et al., 2019) |
| G2-2 |  | 544.49 | CK1δ: 120 nMCK1ε: 926 nM\* | (Liu et al., 2019) |
| G2-3 |  | 494.48 | CK1δ: 240 nMCK1ε: 1.144 nM\* | (Liu et al., 2019) |
| G2-4 |  | 492.49 | CK1δ (TV1): 970 nMwtCK1ε: nd | \* |
| G2-5 |  | 492.49 | CK1δ (TV1): 840 nMwtCK1ε: nd | \* |
| G2-6 |  | 492.49 | CK1δ (TV1): 1400 nMwtCK1ε: nd | \* |

\*: Not published, nd: not determined