**Supplementary Table 4. Molecular docking results of the first six compounds targeting the core protein RASSF8 binding.**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Domain** | **Compound** | **Structure** | **Vina(kcal·mol-1)** | **RMSD** | **DS(LibDockScore)** | **Hydrogen bond interaction** | **Hydrophobic interaction** |
| **RASSF8****(2CS4)** | **ZINC000028232750** | ZINC000028232750 | -5.8 | 2.398 | 146.405 | ARG:86,ARG:85,LEU:84 | TYR:47,ASP:15,TRP:13 |
| **RASSF8****(2CS4)** | **ZINC000003830635** | ZINC000003830635 | -3.9 | 2.751 | 145.626 | GLY:16,ASP:15,LEU:84,TRP:13,TYR:47,ARG:86,SER:90 | - |
| **RASSF8****(2CS4)** | **ZINC000095564694** | ZINC000095564694 | -4.6 | 2.216 | 139.8 | LYS:52,TRP:13,GLY:16,ARG:85,LEU:84,ASP:15,ILE:20,LEU:37,GLU:57 | - |
| **RASSF8****(2CS4)** | **ZINC000085537014** | ZINC000085537014 | -5.4 | 2.353 | 139.564 | ARG:85,ASP:15 | ARG:86ILE:83,TRP:13,VAL:14,LEU:84 |
| **RASSF8****(2CS4)** | **ZINC000036701290** | ZINC000036701290 | -6.9 | 1.066 | 137.788 | TRP:13,ARG:43,ARG:86,ARG:85 | LYS:52,ILE:83,LEU:84,VAL:14,ASP:15,TYR:47,ILE:41 |
| **RASSF8****(2CS4)** | **ZINC000072267023** | ZINC000072267023 | -4.5 | 1.386 | 137.324 | THR:87,TYR:47 | ARG:46,ILE:35,ALA:38,VAL:34,PRO:62,CYS:30,LEU:49 |