**Supp. Table:** TheDocking score (∆G) kcal/mol of synthesized compounds (5, 7, and 8) against selected proteins.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Amino acids | Type of interactions | RMSD | Score kcal/mol | Comp. |
| *P*i | H.B |
| Lys 53, Glu 71 | - | 2 | 0.85 | 6.33- | 5 | MAP kinase P38(ID: 2EWA) |
| Gly170, Asp 168, Met 109 | - | 3 | 1.80 | 5.83- | 7 |
| Asp 112, Asn 115 | - | 2 | 1.90 | -7.32 | 8 |
| Lys 152 | - | 1 | 1.21 | -6.17 | Ligand (code: SB2) |
| Ser 155 | - | 1 | 1.69 | -6.59 | 5 | JNK kinase (ID: 3PZE) |
| Lys 55, Gly35, Ser 34, Gly 33, Ser 155, IIe 32 | 1 | 7 | 1.28 | -6.49 | 7 |
| Ala 36, Arg 69, IIe 32 | 1 | 2 | 1.29 | -7.05 | 8 |
| Met 111, Glu 109, Met 108 | - | 4 | 0.79 | -6.11 | Ligand (code: CFK) |
| Val 228, Lys 101, Phe213 | 1 | 4 | 0.90 | -7.67 | 5 | MEK-2 (ID: 1S9I) |
| Lys 101, Phe 213, Val 131 | - | 4 | 0.76 | -8.49 | 7 |
| Asp 194, Phe213, Lys101 | 1 | 4 | 1.31 | -8.68 | 8 |
| Asp 194, Gly 81, Val 131 | - | 3 | 1.21 | -8.11 | Ligand (code: 5EA) |

|  |  |
| --- | --- |
| C:\Users\1\Desktop\Baan 2 article -docking\2d cpd 5 repeated.pngComp.7Comp.5 | C:\Users\1\Desktop\Baan 2 article -docking\2d cpd 7.png |
| C:\Users\1\Desktop\Baan 2 article -docking\2d cpd 8.pngComp. 8 | C:\Users\1\Desktop\Baan 2 article -docking\2d ligand 2sb.pngLigand  |

Supp. Figure A: 2D interaction mode of synthesized compounds (5,7, and 8) and original ligand (2SB) in active site of MAP kinase P38.

|  |  |
| --- | --- |
| C:\Users\1\Desktop\Baan 2 article -docking\2d 5b-2.pngComp. 5 | C:\Users\1\Desktop\Baan 2 article -docking\2d 7-2.pngComp. 7 |
| C:\Users\1\Desktop\Baan 2 article -docking\2d cpd 8b -2.pngComp. 8 | C:\Users\1\Desktop\Baan 2 article -docking\2d orginal ligand 3pze.pngLigand  |

Supp. Figure B: 2D interaction mode of synthesized compounds (5,7, and 8) and original ligand (CFK) in active site of JNK kinase.

|  |  |
| --- | --- |
| C:\Users\1\Desktop\Baan 2 article -docking\2d cpd 5-3.pngComp. 5 | C:\Users\1\Desktop\Baan 2 article -docking\2d cpd 7-3.pngComp. 7 |
| C:\Users\1\Desktop\Baan 2 article -docking\2d cpd 8-3.pngComp. 8 | C:\Users\1\Desktop\Baan 2 article -docking\2d ligand of 1s9i protein.pngLigand  |

Supp. Figure C: 2D interaction mode of synthesized compounds (5,7, and 8) and original ligand (5EA) in active site of MEK-2.