**S2 Table. The interaction comparison of TGF**β **protein with ASPN and DCN**

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| --- | --- | --- |
| **Interaction Summary** | **ASPORIN** | **DECORIN** |
| **Interface Area (Å2)** | 1359.6 | 1549.1 |
| **No. of H-Bonds** | 11 | 15 |
| **No. of Salt bridges** | 5 | 2 |
| **No. of interface****residues (in %)** | 14.9 (ASPN)45.1 (TGFβ) | 14.8 (DCN)52.4 (TGFβ) |
| **Solvent accessible interface area (in %)** | 8.8 (ASPN)22.7 (TGFβ) | 11.1 (DCN)25.7 (TGFβ) |
| **H-Bonds****(Acceptor: Donor)** |  |  |
| **Hydrophobic Interactions within 5Å** | 106 MET A: 269 LEU C129 TYR A: 269 LEU C129 TYR A: 271 ILE C129 TYR A: 292 PHE C132 ILE A: 277 LEU C156 TYR A :277 LEU C156 TYR A: 279 TRP C199 VAL A: 350 LEU C199 VAL A: 353 MET C223 PHE A: 350 LEU C223 PHE A :353 MET C250 TYR A: 341 VAL C | 177 ILE A: 266 VAL C293 TYR A: 285 PRO C296 VAL A: 336 PRO C348 TYR A: 340 TYR C348 TYR A: 345 PRO C349 VAL A: 345 PRO C349 VAL A: 347 VAL C352 ALA A: 347 VAL C |
| **ΔG (kcal mol-1)** | -14.5 | -19.0 |
| **Kd (M) at 25.0 ℃** | 2.2E-11 | 1.1E-14 |