|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Buried surface area (Å2)** | **4** | **7** | **6** | **8**  **(chains A&B)** | **A1**  **(chains A&B)** | **A1**  **(chains C&D)** | **A8** | **B** | **B** | **B7**  **(crystal form 1)** | **B7**  **(crystal form 2)** |
| **Entire interface in crystal structure** | 4319 | 3316 | 4554 | 4821 | 3237 | 2641 | 1598 | 4006 | 3069 | 4190 | 3747 |
| **Entire interface including all side chains** | 4995 | 3904 | 4678 | 5093 | 3522 | 2703 | 1658 | 4275 | 3069 | 4601 | 4456 |
| **EC2:EC3 interface including all side chains** | 2922 | 1975 | 2476 | 2971 | 2527 | 2703 | 1658 | 1735 | 1114 | 2546 | 2846 |
| **EC1:EC4 interfaces including all side chains** | 1948 | 1929 | 2202 | 2102 | 997 | 0 | 0 | 2540 | 1904 | 1987 | 1621 |

#### Figure 1—source data 7. *Trans*-dimer buried surface areas in all Pcdh EC1–4 containing crystal structures

Interfacial buried surface areas (BSAs) are given as the difference in accessible surface area over both protomers upon dimer formation. BSAs were determined using the PISA server. Unmodeled side chains in the crystal structures were generated using the Dunbrack rotamer library in UCSF chimera. The 4EC1–4, 7EC1–5, 6EC1–4, 8EC1–4, and B3EC1–4 structures correspond to PDBs: 5DZW, 5DZV, 5DZX, 5DZY, and 5K8R.