5RM2 -> phosphate bound

5RME -> phosphate bound

6ZSL -> phosphate bound

7NIO -> APO (only Zn2+)

7NN0 -> AMP-PNP bound

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Structure | Chain | Fpocket pocket no overlap | P2Rank pocket no overlap | Overlap (fpocket, p2rank) |
| 5RM2 | A | 8, 9, 10, 11, 15 | 4(low rank fpocket)  7(low rank fpocket)  8(low rank fpocket)  9(low rank fpocket)  12(low rank fpocket)  13(low rank fpocket)  15, 17  18(low rank fpocket | (6, 10)  (1, 16) &(1, 5) &(1, 3)  (2, 2)&(14, 2)  (3, 1)  (4, 18)  (5, 11)  (7, 6)&(13, 6)  (12, 14) |
| B | 1, 4, 9, 12, 13, 14, 15 | 5(low rank fpocket)  6  7(low rank fpocket)  9(low rank fpocket)  10(low rank fpocket)  11, 12, 13, 14 | (2, 2)  (3, 3)  (5, 15)  (6, 1)&(8,1)&(10, 1)  (7, 8)  (11, 4) |
| 5RME | A | 6, 9, 10, 11, 12, 15 | 7(low rank fpocket)  9, 10  12(low rank fpocket) | (1, 3)&(1, 4)&(5,4)  (2, 1 (partly)) & (4,1)  (3, 2)  (7, 6)  (8, 5)  (13, 11)  (14, 8) |
| B | 11, 12, 13 | 6(low rank fpocket)  8(low rank fpocket)  14(low rank fpocket)  15(low rank fpocket)  16 | (1, 5)  (2, 3)&( 10, 3)  (3, 2)  (4, 1)  (5, 4)  (6, 13)  (7, 11)  (8, 7)  (9, 10)  (14, 12)  (15, 9) |
| 6ZSL | A | 2, 4, 9, 11, 12, 13, 14, 15 | 7(low rank fpocket)  9(low rank fpocket)  10, 11  13(low rank fpocket)  14  15(low rank fpocket) | (1, 12)  (3, 6)  (5, 5)  (6, 3)  (7, 2)  (8, 1)  (10, 4)&(10, 8) |
| B | 3, 9, 11 | 5(low rank fpocket)  8(low rank fpocket)  11(low rank fpocket)  14(low rank fpocket)  15(low rank fpocket) | (1, 3)  (2, 1)&(13, 1)  (4, 9)  (5, 2)&(10, 2)  (6, 7)  (7, 6)  (8, 4)  (12, 10)  (14, 13)  (15, 12) |
| 7NIO | A | 7, 8, 10, 11, 14 | 6  9(low rank fpocket)  10(low rank fpocket)  12(low rank fpocket) | (1, 3)  (2, 2)  (3, 4)  (4, 1)&(5, 1)&(6,1)  (9, 5)  (12, 11)  (13, 7)  (15, 8) |
| E | 6, 11, 12, 13, 14 | 2 (low rank fpocket)  6(low rank fpocket)  7(low rank fpocket)  9(low rank fpocket)  10, 11  12 (low rank fpocket)  13, 14, 15, 17 | (1, 1)&(3, 1)&(4, 1)&(8,1)&(10,3)  (2, 4)  (5, 7)  (7, 5)  (9, 16)  (15, 8) |
| 7NN0 | A | 2, 4, 5, 7, 8, 9, 10, 11, 12, 13, 14, 15 | 1(low rank fpocket)  **3**(low rank fpocket)  5(low rank fpocket)  6(low rank fpocket)  7(low rank fpocket) | (1, 8)  (3, 4)  (6, 2)&(6,3) |
|  | B | 1, 4, 5, 6, 7, 8, 9, 11, 12, 13, 14, 15 |  | (2, 1)  (3, 2)  (10, 3) |
|  | C | 5, 7, 9, 10, 11, 12, 14, 15 | 4(low rank fpocket)  **5**(low rank fpocket)  8(low rank fpocket) | (1, 2)  (2, 7)  (3, 3)&(8, 3)  (4, 1)&(6,1)  (13, 6) |
|  | D | 1, 4, 5, 6, 7, 8, 9,11, 12, 13, 14, 15 | 3(low rank fpocket)  4(low rank fpocket)  5(low rank fpocket) | (2, 2)  (3, 1)&(10,1) |