

## Supplementary material

### ***R* factor and $R_{\text{free}}$ tabulated values for the $P4_3$ actin crystal structure.**

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*R* value by resolution for test set

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Bin	Resolution range		$R_{\text{free}}$
1	6.00	50.00	0.2306
2	4.76	6.00	0.2574
3	4.16	4.76	0.2144
4	3.78	4.16	0.2797
5	3.51	3.78	0.2638
6	3.30	3.51	0.2961
7	3.11	3.30	0.3490
8	3.00	3.11	0.3870
1	3.00	50.00	0.2610

Overall *R* value for test set: 0.2610

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*R* value by resolution for working set

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Bin	Resolution range		<i>R</i> factor
1	6.00	50.00	0.1545
2	4.76	6.00	0.1704
3	4.16	4.76	0.1517
4	3.78	4.16	0.1962
5	3.51	3.78	0.2314
6	3.30	3.51	0.2573
7	3.11	3.30	0.2952
8	3.00	3.11	0.3416
1	3.00	50.00	0.1930

Overall *R* value for working set: 0.1930