

Supplementary Table S1. X-ray data collection and refinement statistics for the native full-length HIV-1 CA / ZW-1261 complex (PDB ID: 7M9F).

Data collection	Beamline APS 22-ID
Wavelength (Å)	1.00000
Resolution (Å)	2.70 (2.70-2.77) ^a
Space group	P6
Cell dimensions	
a, c (Å)	90.9, 56.1
Observed reflections	52,178
Unique reflections	7,239
Redundancy	7.2 (6.1)
Completeness (%)	97.9 (91.1)
R _{meas} ^b	0.118 (0.84)
CC _{1/2}	99.6 (78.3)
Avg I/σ	13.6 (3.4)
Refinement statistics	
Resolution (Å)	45.71-2.70
No. of reflections (working)	6,881
No. of reflections (test)	356
R _{work} ^c	0.197
R _{free} ^d	0.253
Overall B value (Å ²)	70.0
Wilson B value (Å ²)	63.5
Ramachandran plot (%) ^e	
Favored	95%
Allowed	4.5
Disallowed	0.5
All-atom clashscore	4
RMSD Bond length (Å)	0.002
RMSD Angle (°)	0.994

^a Values in parentheses are for the outer resolution shell.

$$^b R_{\text{meas}} = \sum_{hkl} \sqrt{\frac{n}{n-1}} \sum_{j=1}^n |I_{hkl,j} - \langle I_{hkl} \rangle| / \sum_{hkl} \sum_j I_{hkl,j}.$$

$$^c R_{\text{cryst}} = \sum_{hkl} |F_{\text{obs}} - F_{\text{calc}}| / \sum_{hkl} |F_{\text{obs}}|.$$

^d R_{free} = R_{cryst}, except 5% of the data excluded from the refinement.

^e Evaluated by MolProbity (Chen *et al.*, *Acta Cryst. D*66, 2010, 12-21).