Table S1. Crystallographic Statistics

	Zn Anomalous	Se Anomalous
Data Collection		
Resolution (Å)	47.5–2.5 (2.6–2.5)	36.7–3.5 (3.6–3.5)
Wavelength (Å)	1.28180	0.97920
Space group	$P2_12_12$	$P2_12_12$
Unit cell dimensions: a, b, c (Å)	46.5, 162.7, 58.4	46.5, 162.2, 59.9
Unit cell dimensions: α, β, γ (°)	90.0, 90.0, 90.0	90.0, 90.0, 90.0
Molecules per ASU	1	1
No. reflections: total	198595	76805
No. reflections: unique	16035	6188
Completeness (%)	99.6 (98.1)	99.4 (97.3)
Redundancy	12.4 (10.0)	12.4 (11.0)
$I/\sigma I$	18.4 (1.3)	11.8 (1.2)
CC(1/2) (%)	100.0 (53.2)	99.9 (67.5)
Rpim (%)	2.0 (44.2)	3.9 (53.8)
No. sites	1	5
Refinement		
Resolution (Å)	47.5–2.5	
Free reflections (%)	5	
$R\text{-}_{free}$/R-factor	22.5/24.0	
R.M.S. deviation: bond distances (Å)	0.003	
R.M.S. deviation: bond angles (°)	0.661	
Structure/Stereochemistry		
No. atoms: nonhydrogen, protein	2980	
No. atoms: Zn	1	
No. atoms: water	36	
Ramachandran plot: most favored regions	96%	
Ramachandran plot: additionally allowed	4%	
MolProbity score	2.15	
Protein Data Bank ID	4KM5	