

Table 1. Data collection and refinement statistics

Data collection statistics:							
Dataset:	L28B2 (native)	L28C6 HgCl ₂	L28D2 K ₂ PtCl ₄	L88A4 (NH ₄) ₂ WS ₄	L88C1 K ₂ O ₃ O ₄	L88A2 EtOHg	L88B3_2 Ta ₆ Br ₁₄
Temperature					RT (290K)		
Spacegroup					I4		
a=b=, Å	140.7	140.9	140.8	140.2	140.6	141.0	140.9
c=, Å	97.4	97.8	97.8	97.3	98.7	96.8	96.4
Resolution, Å (final shell)	48.8 – 3.5 (3.7 – 3.5)	48.8 – 3.4 (3.6 – 3.4)	40.5 – 3.5 (3.7 – 3.5)	42.3 – 2.5 (2.7 – 2.5)	40.5 – 3.0 (3.16 – 3.0)	28.7 – 3.4 (3.58 – 3.4)	48.2 – 2.8 (2.97 – 2.8)
Reflections unique (total)	12100 (45984)	13281 (49702)	12002 (35629)	30889 (114411)	18290 (36609)	12785 (30504)	22711 (85677)
Completeness (%) overall (final shell)	100.0 (100.0)	100.0 (100.0)	98.9 (99.8)	99.0 (93.7)	95.2 (97.6)	97.4 (98.8)	99.2 (95.3)
I/σ ₁ overall (final shell)	2.8 (1.3)	4.1 (2.2)	3.3 (1.3)	7.9 (2.4)	2.9 (0.6)	4.5 (2.1)	2.6 (1.5)
^a R _{merge} overall	21 %	15.7 %	18.3 %	7.7 %	19.4 %	13.7 %	15.4 %
Number of heavy - atom sites	-	4	10	4	3	12	1×6
^b Phasing power (centric/acentric)	-	0.92/1.2	0.79/1.2	0.56/0.89	0.81/1.03	1.07/1.45	1.05/1.15
^c FOM (MIR)	0.58	-	-	-	-	-	-
Refinement statistics:							
Dataset:	L18B1 (native)						
Temperature	90K	Number of atoms		6445			
Spacegroup	I4	Number of solvent molecules		468			
a=b=, Å	138.9	Number of bounded buffer molecule atoms		66			
c=, Å	94.1						
Resolution, Å (final shell)	28.0 – 1.9 (2.0 – 1.9)	Test set size		10% random			
Reflections unique (total)	70374 (268268)	^d R _{cryst} (R _{free})		0.187 (0.218)			
Completeness (%) overall (final shell)	99.9 (100.0)	RMS bonds/angles		0.017 Å/1.6°			
I/σ ₁ overall (final shell)	10.4 (2.7)	Average B-factors (Å ²)					
		main chain		25.2			
		side chains		26.6			
		solvent		35.5			
		cofactors		56.7			
^a R _{merge} overall	4.9 %						

^a $R_{merge} = \sum_{\mathbf{h}} \sum_{i=1}^{n_{\mathbf{h}}} |I_{\mathbf{h}} - I_{\mathbf{h}i}| / \sum_{\mathbf{h}} \sum_{i=1}^{n_{\mathbf{h}}} |I_{\mathbf{h}i}|$, where $I_{\mathbf{h}i}$ is an intensity value of i -th measurement of reflection \mathbf{h} , $\mathbf{h}=(h, k, l)$, sum $\sum_{\mathbf{h}}$ runs over all measured reflections, and $\langle I_{\mathbf{h}} \rangle$ is an average measured intensity of the reflection \mathbf{h} . Number $n_{\mathbf{h}}$

is a number of measurements of reflection \mathbf{h} . Data were processed with MOSFLM [Leslie 2003] and further processed SCALA [Evans 1997] and TRUNCATE [French 1978] from CCP4 [CCP4 1994] package.

^b Phasing power = $\langle |F_{\mathbf{h}}^{obs}| \rangle / r.m.s.d. \varepsilon$, where ε is lack of closure.

^c FOM – Figure of merit

^d $R_{crys, free} = \sum_{\mathbf{h}} |F_{\mathbf{h}}^{obs} - F_{\mathbf{h}}^{calc}| / \sum_{\mathbf{h}} |F_{\mathbf{h}}^{obs}|$, where $F_{\mathbf{h}}^{obs}$ and $F_{\mathbf{h}}^{calc}$ are observed and calculated structure factors, respectively.