

Table S1: Data collection and refinement statistics. Related to Figure 2.

	Gas(R201C/C237S)
Data collection	
Space group	P 21 21 21
Cell dimensions	
a, b, c (Å)	37.37, 85.58, 125.64
α, β, γ (°)	90, 90, 90
Resolution (Å)	62.82-1.70 (1.79-1.70) ^a
R_{merge} , R_{meas} , and R_{pim}	0.082 (0.342), 0.090 (0.375), 0.035 (0.149)
$I/\sigma(I)$	12 (3.8)
$CC_{1/2}$	0.997 (0.926)
Completeness (%)	98.4 (95.7)
Redundancy	6.1 (5.8)
Refinement	
Resolution (Å)	33.04-1.7
No. reflections	44420
$R_{\text{work}} / R_{\text{free}}$	0.1684/0.2003
No. atoms	
Protein	2807
Ligand/ion (specify/describe)	42
Water	249
B factors	
Protein	25.27
Ligand/ion	19.79
Water	29.88
R.m.s. deviations	
Bond lengths (Å)	0.010
Bond angles (°)	0.88

^a Values in parentheses are for highest-resolution shell.