

SUPPLEMENTARY TABLE S1. X-RAY DATA COLLECTION
AND REFINEMENT STATISTICS FOR StScsC

<i>Data collection</i>	<i>ScsC</i>
Wavelength (Å)	1.5419
Resolution range (Å)	48.7–1.98 (2.05–1.98)
Space group	$P2_1$
Unit cell dimensions (Å)	$a=53.1, b=91.0, c=83.3$ $\alpha=\gamma=90, \beta=102.23$
Observed reflections	790723
Unique reflections	106172
$R_{\text{merge}}^{\text{a}}$	0.06 (0.48)
Completeness (%) [*]	100 (100)
$\langle I \rangle / \sigma(I) >^*$	13.0 (2.4)
Redundancy ^c	7.5 (7.3)
<i>Refinement</i>	
Resolution (Å)	48.7–2.04
Completeness for range (%)	99.8
$R_{\text{factor}}^{\text{b}}$ (%) [*]	19.9 (43.7)
$R_{\text{free}}^{\text{c}}$ (%) [*]	25.3 (47.9)
Number of non-H protein atoms	5503
Number of waters	411
Wilson B	35.41
Average B factor (Å ²)–All atoms	45.32
Average B factor (Å ²)–Water	46.28
Average B factor (Å ²)–Nonsolvent	45.25
<i>R.m.s.d. from ideal geometry</i>	
Bonds (Å)	0.008
Angles (°)	1.003
<i>Molprobit analysis</i>	
Residues in most favored/ additionally allowed regions (%)	98.7/1.3
Residues with bad angles (%)	0
Poor rotamers (%)	2
Clashscore (percentile)	11.55 (76th)
Molprobit score (percentile)	1.81 (87th)

^{*}Values in parentheses refer to the highest resolution shell.

^a $R_{\text{merge}} = \sum |I - \langle I \rangle| / \sum \langle I \rangle$, where I is the intensity of individual reflections.

^b $R_{\text{fac}} = \sum_h |F_o - F_c| / \sum_h |F_o|$, where F_o and F_c are the observed and calculated structure-factor amplitudes for each reflection "h."

^c R_{free} was calculated with 5% of the diffraction data selected randomly and excluded from refinement.