

Supplementary

Table S1. X-Ray Statistics.

Statistic	CA II Salicylic Acid
Wavelength (Å)	0.9795
Resolution range (Å)	35.55 - 1.36 (1.40 - 1.36)
Space group	P 1 21 1
Unit cell: a,b,c (Å)	41.3, 42.4, 72.0
α, β, γ (°)	90, 104.2, 90
Total reflections	145498 (7504)
Unique reflections	48888 (3558)
Multiplicity	3.0 (2.1)
Completeness (%)	93.72 (66.69)
I/I_{σ}	11.6 (0.8)
Wilson B-factor (Å ²)	15.85
R_{merge}^a (%)	4.54 (77.60)
R_{work}^b (%)	15.44 (32.61)
R_{free}^c (%)	16.67 (33.08)
R_{pim}^d (%)	2.97 (58.68)
Reflections used in refinement	49449 (3514)
Reflections used for R-free	2002 (138)
Number of non-hydrogen atoms	2359
macromolecules	2128
ligands	55
solvent	176
Protein residues	258
RMS(bonds) (Å)	0.012
RMS(angles) (°)	1.21
Ramachandran favored (%)	97.7
Ramachandran allowed (%)	2.3
Ramachandran outliers (%)	0.0
Rotamer outliers (%)	1.3
Average B-factor(Å ²)	22.4
macromolecules	21.5
ligands	34.6
solvent	30.7

$$^a R_{merge} = (\sum |I - \langle I \rangle| / \sum \langle I \rangle) \times 100.$$

$$^b R_{work} = (\sum |F_o - F_c| / \sum |F_o|) \times 100.$$

^c R_{free} is calculated in the same way as R_{cryst} except it is for data omitted from refinement (5% of reflections for all data sets).

$$^d R_{pim} = [(\sum \sqrt{1/N} - 1) \sum |I - \langle I \rangle| / \sum \langle I \rangle] \times 100.$$

Values in parentheses correspond to those of the highest-resolution shell.