

## Supplementary Material

**Supplementary Table S1.** Crystallographic statistics data. Complete data sets were collected on 22 native and 47 dehydrated crystals.

Data set	Resolution (Å)		Completeness (%)		Multiplicity		<l/σl >		Rmerge (%)		Wilson B factor (Å <sup>2</sup> )	Total observations		Unique observations	
	overall	outer	overall	outer	overall	outer	overall	outer	overall	outer		overall	outer	overall	outer
Native															
Run 1															
1	62.48 - 2.73	2.8 - 2.73	99.8	99.9	6.6	7	26.3	2.7	4.0	66.2	88.742	115300	8920	17512	1278
2	76.13 - 2.71	2.78 - 2.71	99.8	99.9	6.6	6.5	22.6	2.5	5.1	71.8	81.694	117851	8309	17800	1288
3	62.42 - 2.83	2.9 - 2.83	99.9	100.0	6.6	7	18	2.6	6.1	68.8	89.911	104107	8025	15717	1140
4	76.06 - 2.65	2.72 - 2.65	99.8	100.0	6.7	7	16.4	2.2	6.5	86.3	77.99	126197	9634	18959	1375
5	62.73 - 2.69	2.76 - 2.69	100.0	100.0	6.6	7.1	27.2	2.4	4.2	76.3	86.06	122561	9359	18500	1324
6	62.46 - 2.84	2.91 - 2.84	99.9	99.9	6.6	7	25.8	2.5	4.9	75.2	87.218	102169	7729	15571	1105
7	62.69 - 3.14	3.22 - 3.14	95.3	99.7	6.2	6.7	21.8	2.8	7.1	67.4	105.54	69978	5670	11213	847
8	76.17 - 2.9	2.98 - 2.9	99.9	100.0	6.5	6.8	23.1	2.5	5.3	74.9	93.323	95464	7368	14713	1078
9	76.01 - 2.95	3.03 - 2.95	99.8	100.0	6.5	6.8	28.9	2.6	4.3	76.6	100.225	90704	7009	14005	1025
10	76.01 - 3.00	3.08 - 3.00	99.9	99.9	6.5	6.8	19.2	2.4	6.2	84.0	97.302	86809	6693	13385	981
11	96.59 - 3.03	3.11 - 3.03	99.9	100.0	6.5	6.9	25.5	2.9	4.6	67.0	102.642	84502	6450	12977	936
12	76.08 - 3.03	3.11 - 3.03	99.8	100.0	6.5	6.9	20.8	2.5	5.9	76.0	99.001	84222	6522	12886	939
13	62.45 - 2.98	3.06 - 2.98	99.9	100.0	6.6	7	28.7	2.7	4.3	73.7	101.663	88824	6764	13527	972
14	62.52 - 3.09	3.17 - 3.09	99.8	100.0	6.5	6.8	23.8	2.6	5.5	75.3	97.664	79041	6177	12207	903
15	62.43 - 2.98	3.06 - 2.98	99.5	100.0	6.6	7	24.3	2.8	5.4	68.4	93.924	88742	6736	13456	962
16	75.93 - 3.05	3.13 - 3.05	99.9	100.0	6.5	6.9	22.8	2.5	5.2	71.3	102.34	82364	6242	12672	906
17	75.74 - 2.97	3.05 - 2.97	93.1	94.8	8	8.2	28.5	2.8	4.6	70.6	103.4	98987	7446	12430	905
Run 2															
18	62-53 - 2.84	2.92 - 2.84	99.2	99.8	13.1	13.6	31.9	3.5	5.2	76.5	94.594	202742	15291	15443	1122
19	75.91 - 2.76	2.83 - 2.76	100.0	99.9	13.2	14.1	34.4	3.7	5.2	81.5	85.66	227492	17362	17184	1234
20	75.79 - 2.88	2.96 - 2.88	99.4	99.9	13.2	14	28.5	3.7	6.7	92.3	87.816	197539	15166	14996	1083
21	75.99 - 3.01	3.09 - 3.01	99.9	100.0	13	13.8	31.1	3.8	6.0	83.1	96.094	173482	13459	13323	977
22	76.07 - 3.08	3.16 - 3.08	100.0	100.0	13	13.7	34	4.6	5.3	71.9	100.288	160988	12356	12373	900

Data set	Resolution (Å)		Completeness (%)		Multiplicity		<l/ σ>		Rmerge (%)		Wilson B factor (Å <sup>2</sup> )	Total observations		Unique observations	
	overall	outer	overall	outer	overall	outer	overall	outer	overall	outer		overall	outer	overall	outer
Dehydrated															
Run 1															
1	96.53 - 2.68	2.75 - 2.68	99.8	100.0	6.5	6.5	17.4	2.6	6.4	69.9	74.562	120227	8748	18406	1344
2	62.12 - 2.55	2.62 - 2.55	99.8	99.9	6.5	6.1	21.2	2.4	5.1	70.9	69.939	135825	9272	20942	1522
3	62.23 - 2.33	2.39 - 2.33	99.8	99.8	6.6	6.6	19.8	2.8	5.0	63.0	57.449	180573	13131	27520	1989
4	75.80 - 2.57	2.64 - 2.57	99.9	99.9	6.7	7.1	17.3	2.3	6.7	86.1	68.194	136679	10533	20528	1493
5	62.30 - 2.55	2.62 - 2.55	99.8	99.8	6.6	7	16.9	2.4	6.8	81.7	67.663	139860	10597	21117	1508
6	62.00 - 2.75	2.82 - 2.75	99.9	99.8	6.6	6.9	16.1	2.5	8.1	69.6	69.098	109932	8371	16747	1208
7	62.37 - 2.66	2.73 - 2.66	99.9	100.0	6.6	6.9	24.6	2.4	4.9	76.8	76.819	123772	9427	18778	1357
8	62.01 - 2.55	2.62 - 2.55	100.0	100.0	6.7	7.1	18.4	2.3	6.2	83.2	67.567	139424	10732	20939	1520
9	62.36 - 2.74	2.81 - 2.74	99.8	99.9	6.5	7	21.4	2.5	5.7	68.4	77.579	112392	8813	17220	1266
10	62.36 - 2.65	2.72 - 2.65	99.8	100.0	6.6	7	23	2.5	4.9	80.2	78.051	126062	9693	18987	1384
11	76.11 - 2.64	2.71 - 2.64	99.9	100.0	6.6	7	17.6	2.5	6.6	85.2	72.628	126224	9748	19110	1393
12	54.19 - 2.54	2.61 - 2.54	99.5	99.6	6.7	7.1	22.7	2.5	5.2	72.4	68.024	142167	10937	21324	1542
13	62.21 - 2.75	2.83 - 2.75	99.8	99.9	6.6	6.9	19.2	2.5	7.1	78.1	73.339	110391	8441	16830	1215
14	62.20 - 2.53	2.60 - 2.53	99.6	99.5	6.7	7.1	14.6	2.2	7.6	91.0	68.234	144387	11003	21533	1557
15	60.02 - 2.39	2.45 - 2.39	99.8	99.6	6.6	6.3	17.3	2.3	5.7	74.3	62.709	168602	11833	25597	1888
16	62.10 - 2.36	2.42 - 2.36	99.7	99.6	6.6	6.4	15	2.5	6.5	64.8	59.335	173152	12195	26294	1900
17	62.26 - 2.60	2.67 - 2.60	99.8	100.0	6.6	7	22.5	2.4	5.3	78.7	72.299	131845	10173	19921	1449
18	62.14 - 2.70	2.77 - 2.70	99.8	99.7	6.6	7	20.1	2.2	6.9	86.6	70.78	116410	8786	17704	1259
19	62.29 - 2.38	2.44 - 2.38	99.9	99.5	6.6	6.4	19.7	2.3	5.4	89.2	60.934	170108	11915	25939	1868
20	62.31 - 2.66	2.73 - 2.66	99.8	100.0	6.6	7	21.1	2.6	5.6	76.4	75.2	123463	9480	18732	1355
21	62.20 - 2.53	2.60 - 2.53	99.8	99.6	6.7	7.1	17.5	2.7	6.4	68.9	65.881	143987	11057	21568	1564
22	54.19 - 2.80	2.87 - 2.80	99.9	100.0	6.6	6.9	11.2	2.2	10.7	76.7	72.089	105215	8002	16048	1154
23	62.23 - 2.38	2.44 - 2.38	99.8	99.5	6.6	6.4	19	2.6	5.2	62.5	60.618	169774	11879	25808	1870
24	62.22 - 2.57	2.64 - 2.57	99.9	100.0	6.6	6.9	18.6	2.2	6.1	82.1	71.017	136012	10422	20641	1508
25	62.33 - 2.48	2.54 - 2.48	99.9	99.9	6.6	6.9	16.3	2.3	6.4	85.4	67.138	151526	11581	23058	1677
26	62.15 - 2.79	2.87 - 2.79	99.8	100.0	6.6	6.9	16	2.5	8.9	83.7	70.514	105696	8181	16122	1181
27	75.72 - 2.83	2.90 - 2.83	99.9	100.0	6.5	6.9	12.6	2.2	10.0	87.9	74.215	100999	7705	15421	1117
28	62.18 - 2.82	2.89 - 2.82	100	100.0	6.5	6.9	19.5	2.6	7.6	78.0	71.516	102298	7748	15701	1121
29	62.08 - 2.48	2.55 - 2.48	99.9	99.9	6.6	7	18.3	2.5	6.1	74.5	63.808	150547	11571	22696	1649
Run 2															
30	75.88 - 2.39	2.46 - 2.39	100.0	100.0	13.3	14.1	22.2	3.6	7.1	93.5	59.383	337447	25877	25382	1838
31	75.82 - 2.70	2.77 - 2.70	100.0	100.0	13	13.7	19.4	3.4	13.1	153.5	66.448	230528	17283	17730	1262
32	76.29 - 2.82	2.89 - 2.82	97.8	100.0	12.2	13.5	27.2	4.1	9.7	74.5	83.072	189525	15555	15542	1150

33	62.23 - 2.41	2.48 - 2.41	100.0	100.0	13.3	14.1	20.2	3.3	7.9	84.2	61.422	331454	25446	24851	1810
34	59.98 - 2.48	2.54 - 2.48	100.0	99.9	13.2	14	22.6	3.2	7.5	89.3	64.953	303625	23322	22957	1666
35	76.16 - 2.59	2.66 - 2.59	99.9	100.0	13.1	13.9	26.4	3.5	6.7	85.4	71.235	266102	20336	20354	1468
36	62.28 - 2.39	2.45 - 2.39	100.0	100.0	13.3	14.1	26.6	4	5.6	75.6	61.173	342152	26430	25674	1877
37	62.23 - 2.38	2.44 - 2.38	100.0	100.0	13.3	14.1	24.4	3.8	6.2	81.4	61.218	345530	26521	25920	1883
38	62.34 - 2.51	2.58 - 2.51	100.0	100.0	13.1	13.8	26.1	3.6	6.1	90.2	70.364	290865	22315	22198	1620
39	62.45 - 2.74	2.81 - 2.74	100.0	100.0	12.9	13.3	27.6	3.4	6.4	100.7	79.268	223248	16816	17334	1265
40	75.96 - 2.46	2.53 - 2.46	99.9	99.9	13.3	12.1	22.3	3.4	7.5	85.0	63.436	310014	20512	23393	1702
41	96.23 - 2.63	2.70 - 2.63	99.9	100.0	13.2	14.1	19.8	3.4	8.8	97.6	69.643	255580	19930	19293	1410
42	62.21 - 2.65	2.72 - 2.65	99.9	100.0	13.1	14	24.7	3.6	8.2	106.9	71.461	247045	19100	18856	1363
43	76.08 - 2.68	2.75 - 2.68	100.0	100.0	13	13.7	23.2	3.7	8.4	100.4	72.018	239230	18100	18369	1325
44	62.38 - 2.67	2.74 - 2.67	100.0	100.0	13	13.7	23.1	3.6	7.8	87.8	71.788	243112	18528	18640	1349
45	62.39 - 2.76	2.83 - 2.76	100.0	100.0	12.9	13.6	23.1	3.7	8.4	81.3	74.797	217805	16547	16886	1217
46	62.23 - 2.48	2.54 - 2.48	100.0	99.9	13.3	14	23.5	3.8	7.0	81.7	64.482	304392	23285	22972	1662
47	62.18 - 2.42	2.49 - 2.42	100.0	100.0	13.3	14.1	28.1	3.6	6.0	86.8	61.588	326711	25267	24551	1791