

Supplementary Materials

Enhancing Protein Crystallization Under a Magnetic Field

Sun Young Ryu ^{1,2}, In Hwan Oh ^{1,*}, Sang Jin Cho ¹, Shin Ae Kim ³ and Hyun Kyu Song ^{2,*}

¹ Quantum Beam Science Division, Korea Atomic Energy Research Institute, Daejeon 34057, South Korea; syryu86@kaeri.re.kr (S.Y.R.); sjcho@kaeri.re.kr (S.J.C.)

² Department of Life Sciences, Korea University, Seoul 02841, South Korea

³ Nuclear Training and Education Center, Korea Atomic Energy Research Institute, Daejeon 34057, South Korea; sakim@kaeri.re.kr

* Correspondence: oh1905@kaeri.re.kr (I.H.O.); hksong@korea.ac.kr (H.K.S.)

Received: 18 August 2020; Accepted: 15 September 2020; Published: date

Contents

Table S1. Summary of X-ray data collection at room temperature of HEWL crystals.

Table S1. Summary of X-ray diffraction data at room temperature (RT) of HEWL crystals grown with and without a magnetic field (values in parentheses represent the highest resolution shell).

Data Collections	HEWL	
	0	200
Magnetic Strength (mT)	0	200
Diffraction source	Rigaku R-axis IV	Rigaku R-axis IV
Wavelength (Å)	1.5406	1.5406
Temperature (K)	293.15 (RT)	293.15 (RT)
Distance (mm)	150	150
Space group	P4 ₃ 2 ₁ 2	P4 ₃ 2 ₁ 2
a, b, c (Å)	79.365	79.165
	79.365	79.165
	37.630	37.874
	90.000	90.000
α , β , γ (°)	90.000	90.000
	90.000	90.000
	90.000	90.000
Resolution range (Å) (outer shell)	50.0–2.44 (2.53–2.44)	50.0–1.95 (2.02–1.95)
No. of total reflections	17,987	23,521
Completeness (%)	96.1 (99.8)	76.8 (14.7)
R_{merge}	0.077 (0.230)	0.055 (0.227)
$\langle I \rangle / \langle \sigma(I) \rangle$	13.5 (4.8)	19.0 (4.0)
Mosaicity (°)	0.210	0.160
Redundancy	3.90 (3.80)	3.32 (1.36)