

Table S1. DddW activity and yield during the course of purification. Whole cell lysate (WCL), cell free lysate (CFL), post Ni-NTA, post size exclusion (post SEC), and after a freeze-thaw.

	Total volume (mL)	Concentration (mg/mL)	Total protein (mg)	Activity (μM of acrylate)	Total Activity (μmol of acrylate)	Specific Activity ($\mu\text{mol}/(\text{sec}\cdot\text{mg})$)	Purification factor	Yield (%)
WCL	30	139.36	4180.8	5049.80	151.49	0.01	1	100
CFL	25	113.98	2849.5	5267.28	131.68	0.02	1.53	87
post Ni-NTA	60	0.63	37.8	1833.27	110.00	0.40	40.15	73
post SEC	5.75	3.52	20.2	8122.58	46.70	3.34	332.25	31
freeze thaw	5.75	3.52	20.2	7703.46	44.29	3.17	-	-