

Supplementary Material to:

Enzyme-mediated quenching of the *Pseudomonas* quinolone signal (PQS): a comparison between naturally occurring and engineered PQS-cleaving dioxygenases

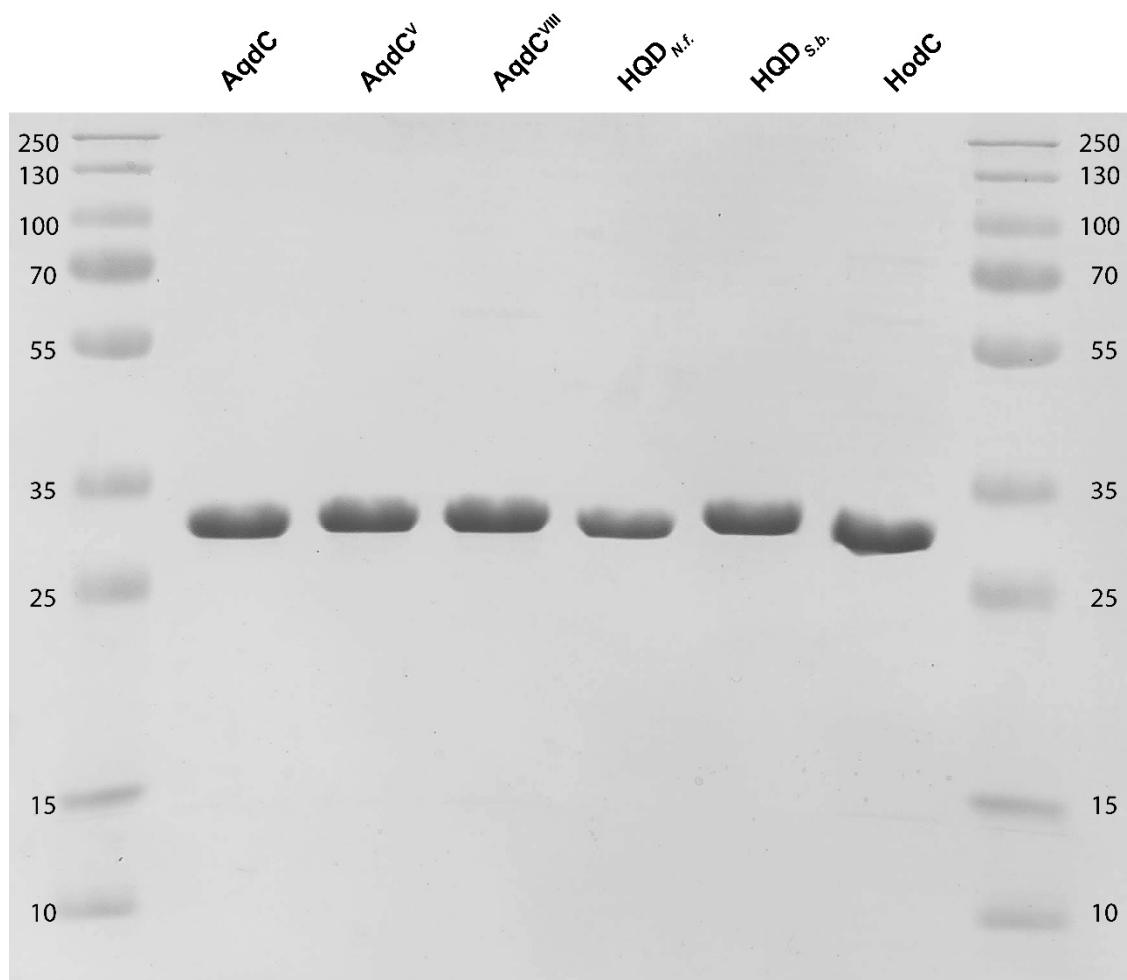


Figure S1. Purified HQD proteins. SDS-PAGE (12.5%) of recombinant proteins (4 µg) purified by affinity chromatography. Gels were stained with Coomassie Blue and PageRuler™ Plus Prestained Protein Ladder (Thermo Scientific) was used as a marker.

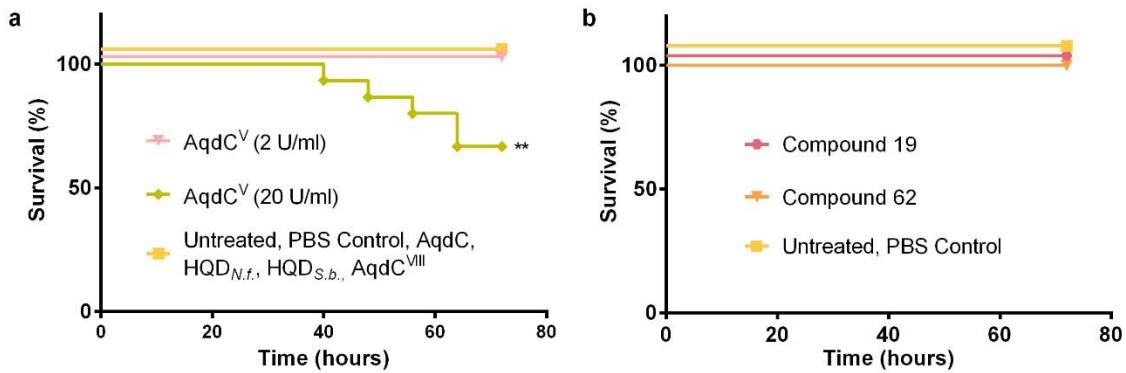


Table S1. Kinetic parameters of HQDs for 2-heptyl-3-hydroxy-4(1*H*)-quinolone (PQS). Results are represented as mean \pm SD.

Enzyme	Specific activity (U/mg)	k_{cat} (s ⁻¹)	K _M (μ M)	k_{cat}/K_M	Reference
HodC	0.2	0.16	13.4	0.01	[15]
AqdC	60.2 ± 2.2	41.9 ± 1.1	5.8 ± 0.4	7.3 ± 0.6	[14]
AqdC ^V	13.1 ± 0.2	15.9 ± 1.0	22.1 ± 4.1	0.7 ± 0.1	[19]
AqdC ^{VIII}	43.5 ± 4.7	27.0 ± 2.8	3.7 ± 0.3	7.4 ± 0.1	[19]
H ^{QD_{N.f.}}	73.2 ± 2.8	43.9 ± 1.5	3.1 ± 0.4	14.1 ± 1.8	[14]
H ^{QD_{S.b.}}	34.1 ± 2.3	27.4 ± 2.3	2.7 ± 0.9	9.3 ± 1.1	[14]