Supplementary Materials

Molecules	LLE	LE	Estimated Affinity				Torsion
			pМ	nM	μM	mM	
За	Q	Ĩ					
3b	P				⊢ −−1		
Зс	P				\vdash		
3d	P	P				F	
Зе	P						
3f	P				\vdash		
Зg	P	Q				l	
3h	P	Q					
3i-ome	P					-	
3i	P	Q			⊢		
Зј	Q	Ĩ		H			
3k	P	Q				-	
3m	•	Q			—	-1	
3n	P	Q				⊢	
4a							
4a	P	Q			H		

Table S1: LLE, LE, Est. Affinity, and Torsion values for *Pf*LDH with 68 molecules and CQ.





4k 41 4l 4m 4m 4n-ipr 4n-ipr 4n 4n 4p-ome Q 4p-ome 40 40 4p-cl 4p-cl 4p 4p 4q 4q



Molecules	LLE	LE	Estimated Affinity				Torsion
			pМ	nM	μΜ	mM	
3a	P	P				F	
3b	Q				⊢ −−1		
Зс	P				— ––1		
3d	P	P				F	
Зе	Q			I			
3f	Q			H			
Зg	P	P				F	
3h	Q				— —1		
3i-ome	P	P				⊢	
3i	P	P				F	
Зј	P	P			H		
3k	P	P				⊢	
3m	P	P				F	
3n	P	P				F	
4a	P	Q					
4a	Q				 	ł	
4b	P	Q				-1	

Table S2: LLE, LE, Est. Affinity, and Torsion values for human LDH with 68 molecules and CQ.







41	P	P
41	P	P
4m	P	P
4m	P	P
4n-ipr	P	P
4n-ipr	P	P
4n	P	Q
4n	P	P
4p-ome	P	P
4p-ome	P	P
40	P	P
40	P	Q
4p-cl	P	P
4p-cl	•	Q
4p	P	P
4p	P	•
4q	P	P
4q	P	P
4r	P	•



S. No.	Complexes	ΔE binding (kj/mol)	SASA	ΔE polar solvation	ΔE _{Electrostatic}	$\Delta E_{ m VanderWaal}$
				(kj/mol)	(kj/mol)	(kj/mol)
1.	1I10-CQ	-79.489	-15.110	163.974	-9.869	-218.484
2.	1I10-3j	-111.752	-12.411	32.244	-1.427	-130.158
3.	1I10-4b	-186.078	-14.971	64.235	-18.272	-217.070
4.	1I10-4h	-169.214	-15.874	83.218	-22.170	-214.389
5.	1I10-4m	-170.515	-18.838	168.094	-65.546	-254.226
6.	1LDG-CQ	-107.192	-16.283	118.347	-14.068	-195.189
7.	1LDG-3j	-161.138	-14.199	26.464	-1.804	-171.599
8.	1LDG-4b	-113.420	-12.651	57.919	-27.257	-131.431
9.	1LDG-4h	-136.928	-14.779	64.678	-31.918	-154.908
10.	1LDG-4m	-194.375	-18.495	133.251	-52.355	-256.776

Table S3: MM-PBSA internal calculations of binding energy for human LDH and *Pf*LDH

complexes.



Figure S2: Superimposed protein 3-dimensional X-ray crystal structures of human LDH (brown), *Pf*LDH(blue).



