Supplementary Information

The transition state structure for binding between TAZ1 of CBP and the disordered Hif-1 α CAD

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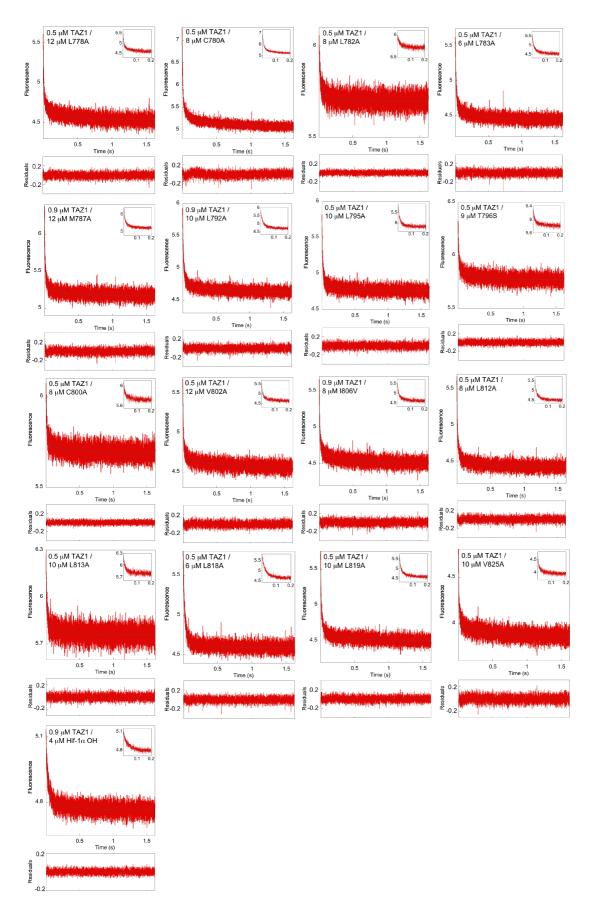
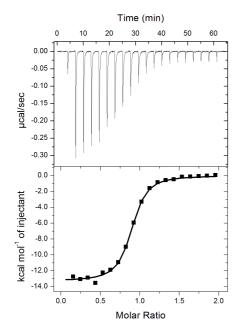


Figure S1. Representative stopped-flow binding traces for the TAZ1/Hif- 1α CAD variants. The inset shows a closer view of the fast phase. Data were fitted to a double exponential function.



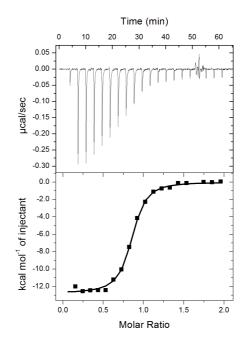


Figure S2. ITC titration series for the interaction between TAZ1 and Hif-1 α CAD (L813A), which were performed in duplicate, both of which are shown here. The determined average K_d is 0.144 \pm 0.012 μ M, which is in excellent agreement with the K_d obtained with the stopped-flow method (0.137 \pm 0.009 μ M).

Table S1. k_{obs} for the slow phase for the binding between TAZ1 and Hif1-1 α CAD mutant variants.

Hif-1α CAD variant	$k_{ m obs}$ (s ⁻¹) slow phase	error
WT	3.33	0.39
L778A	3.22	0.23
C780A	3.40	0.33
L782A	3.29	0.51
L783A	3.32	0.29
M787A	3.19	0.64
L792A	2.86	0.31
L795A	2.70	0.52
T796S	3.01	0.35
C800A	3.24	1.17
V802A	3.56	0.57
1806V	3.18	0.37
L812A	3.59	0.20
L813A	4.39	1.24
L818A	3.81	0.75
L819A	3.62	0.66
V825A	2.69	0.14
Hif-1 α OH	4.97	1.71