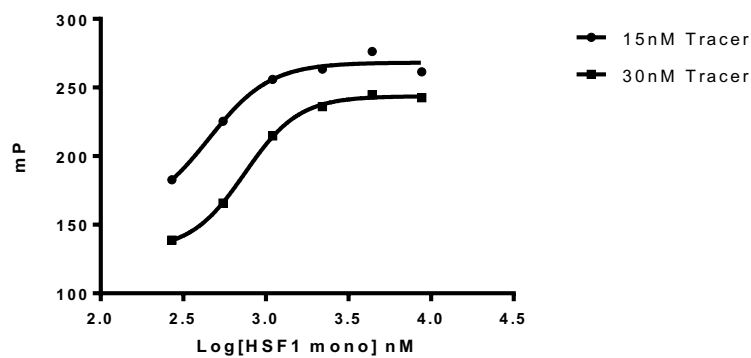


Supplementary Information

Rational Design and Screening of Peptide-Based Inhibitors of Heat Shock Factor 1 (HSF1)

Xu Ran[†], Eileen T. Burchfiel[‡], Bushu Dong[‡], Nicholas J. Rettko[§], Bryan M. Duniak[†], Hao Shao[†], Dennis J. Thiele^{‡,¶,§} and Jason E. Gestwicki^{†,§*}



	15 nM Tracer	30 nM Tracer
HillSlope	2.3	2.7
EC50	452	746
SD	-	-

Figure S1 Exploration of tracer concentration in assay condition using HSF1 monomer. Results are the average of triplicates and error bars represent SD.

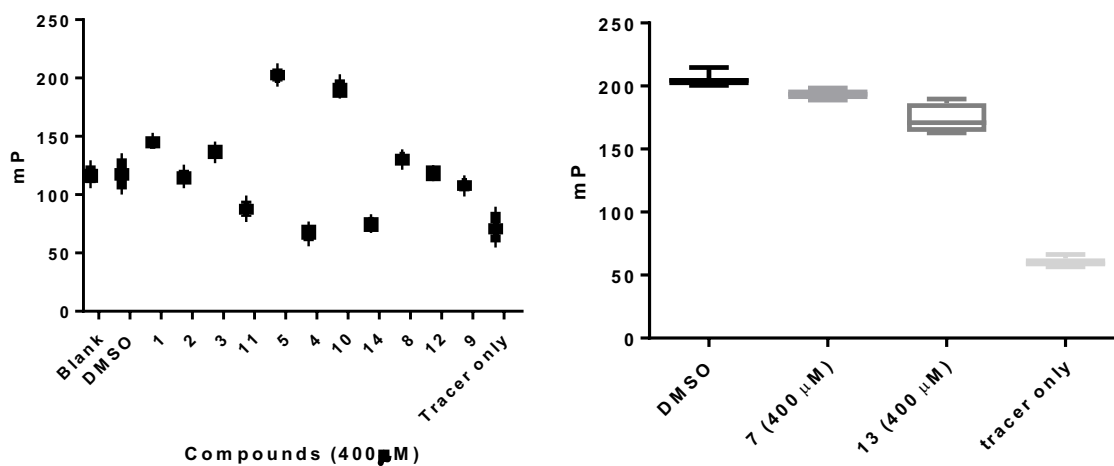


Figure S2 Preliminary fluorescence polarization screening results. Results are the average of triplicates and error bars represent SD.

Table S1 Sequence and characterization of **14** and **14F**.

ID	Sequence	ESI-MS m/z	Purity
14	Ac-DKNELSDHLDAMDSNL-NH ₂	929.7 (1/2 [M] ⁺)	>95%
14F	FAM-βA-βA- DKNELSDHLDAMDSNL-NH ₂	773.3 (1/3 [M] ⁺), 1158.4 (1/2 [M] ⁺)	>95%

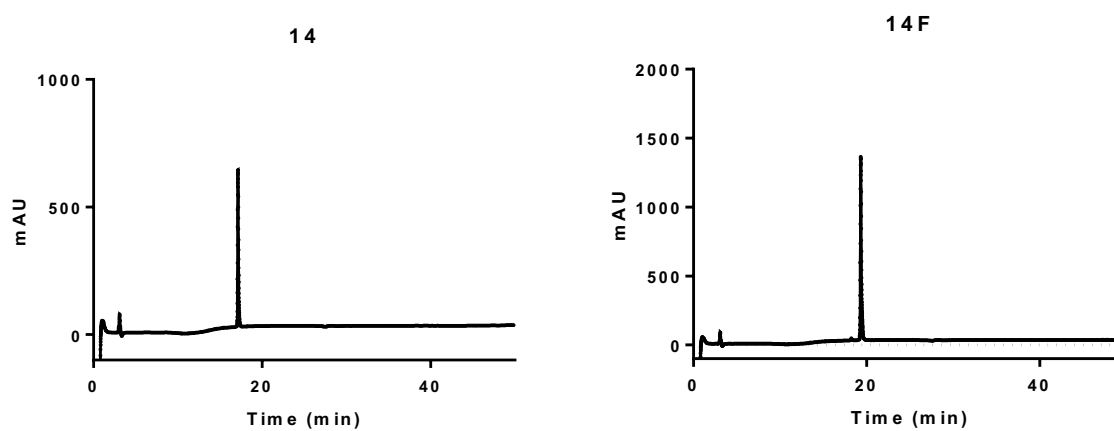


Figure S3 Analytical HPLC spectra of **14** and **14F**.