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Supplementary Information:

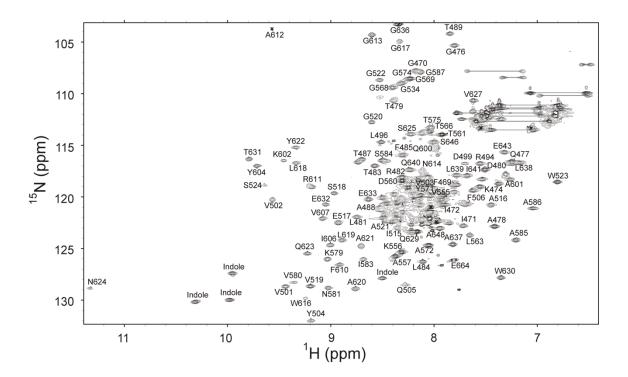


Fig. S1 Two-dimensional ¹⁵N-¹H HSQC NMR spectra (amide region) of ¹⁵N-labeled NpF2164g3 in the violet-absorbing dark state recorded at 600 MHz proton frequency. Side chain amide resonances of Asn and Gln are connected with solid lines. Representative assignments are indicated; complete assignments are available as BMRB accession no. 19629.

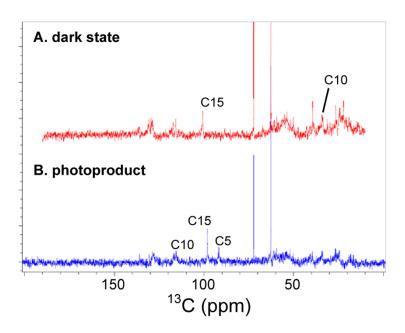


Fig S2. ¹³C-¹H INEPT NMR spectra of NpF2164g3 with attached bilin chromophore containing ¹³C-H labeling (at C5, C10, and C15) in the dark-adapted violet state (A) and light-activated orange state (B).