

Supplementary file 1

Electronic Supplementary Material

Amjadi et al., *BiolImpacts*, 2021, 11(3), 173-179

doi: [10.34172/bi.2021.23](https://doi.org/10.34172/bi.2021.23)

<http://bi.tbzmed.ac.ir/>

A sensitive homogeneous enzyme assay for euchromatic histone-lysine-N-methyltransferase 2 (G9a) based on terbium-to-quantum dot time-resolved FRET

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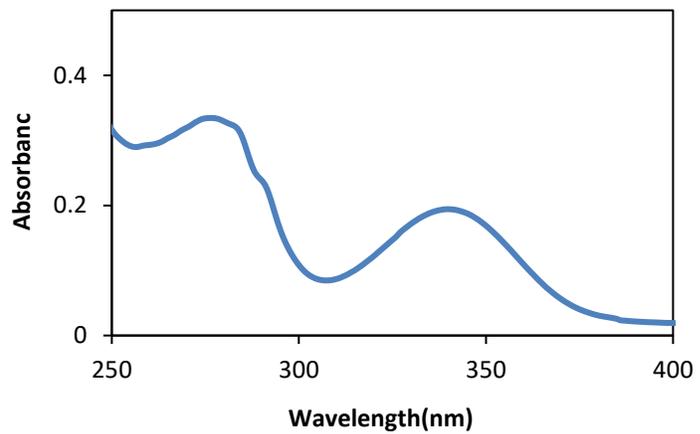


Fig. S1. Uv-Vis spectrum of Tb-AB conjugate.

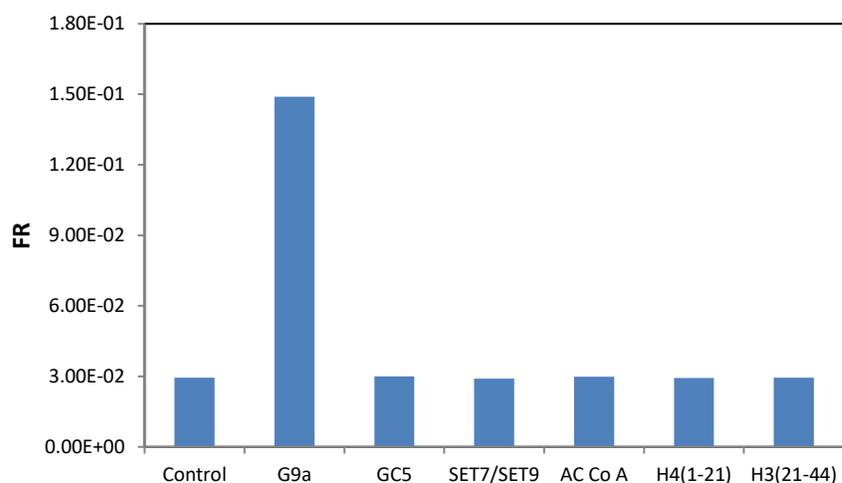


Fig. S2. Selectivity of the assay. Conditions: (a) Control: H3(1-21) peptide, 100 nM; SAM, 50 μ M; Tb-AB, 2 nM; QDs, 0.5 nM; incubation time, 40 min; (b) G9a, 0.15 nM, other conditions are same as a; (c) GC5, 1 nM, other conditions are same as a; (d) SET7/9, 1 nM other conditions are same as a; (e) acetyl coenzyme A (Ac Co A), 50 μ M; H3(1-21) peptide, 100 nM; G9a, 0.1 nM; Tb-AB 2 nM; QDs, 0.5 nM; incubation time, 40 min; (f) H4(1-21) peptide, 100 nM; SAM, 50 μ M; G9a, 0.1 nM; Tb-AB 2 nM; QDs, 0.5 nM; incubation time, 40 min; (g) H3(21-44) peptide, 100 nM, SAM, 50 μ M; G9a, 0.1 nM; Tb-AB 2 nM; QDs, 0.5 nM, incubation time, 40 min.