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Two-step Separation-free Quantitative Detection of HSA and FIB in Human Blood Plasma by a Pentaphenylpyrrole Derivative with Aggregation-Enhanced Emission Properties

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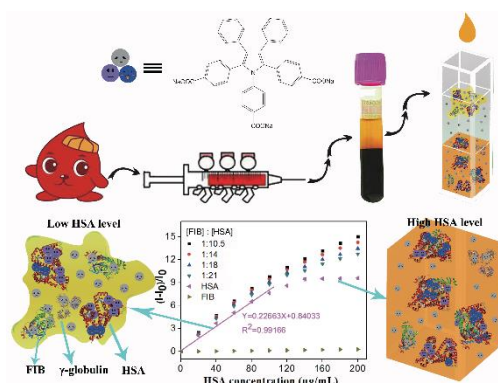
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TOC graphic



Highlights

- 1. DP-TPPNa with feature was used to quantitatively *in-situ* and real-time determine the concentrations of HSA and FIB in two step with one human blood plasma system.
- 2. Compared with the authoritative test, this method displays lower standard deviation (SD).
- 3. The interactions between proteins can affect their configurations and conformations in blood plasma.

ABSTRACT: A novel fluorescence based strategy, employing the aggregation-enhanced emission (AEE) property of sodium 4,4',4''-(3,4-diphenyl-1H-pyrrole-1,2,5-triyl)tribenzoate (DP-TPPNa), was proposed to determine the concentrations of human serum albumin (HSA) and fibrinogen (FIB) in human plasma without

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