SUPPORTING INFORMATION

β-lactoglobulin as a Nanotransporter for Glabridin: Exploring the Binding Properties and Bioactivity Influences

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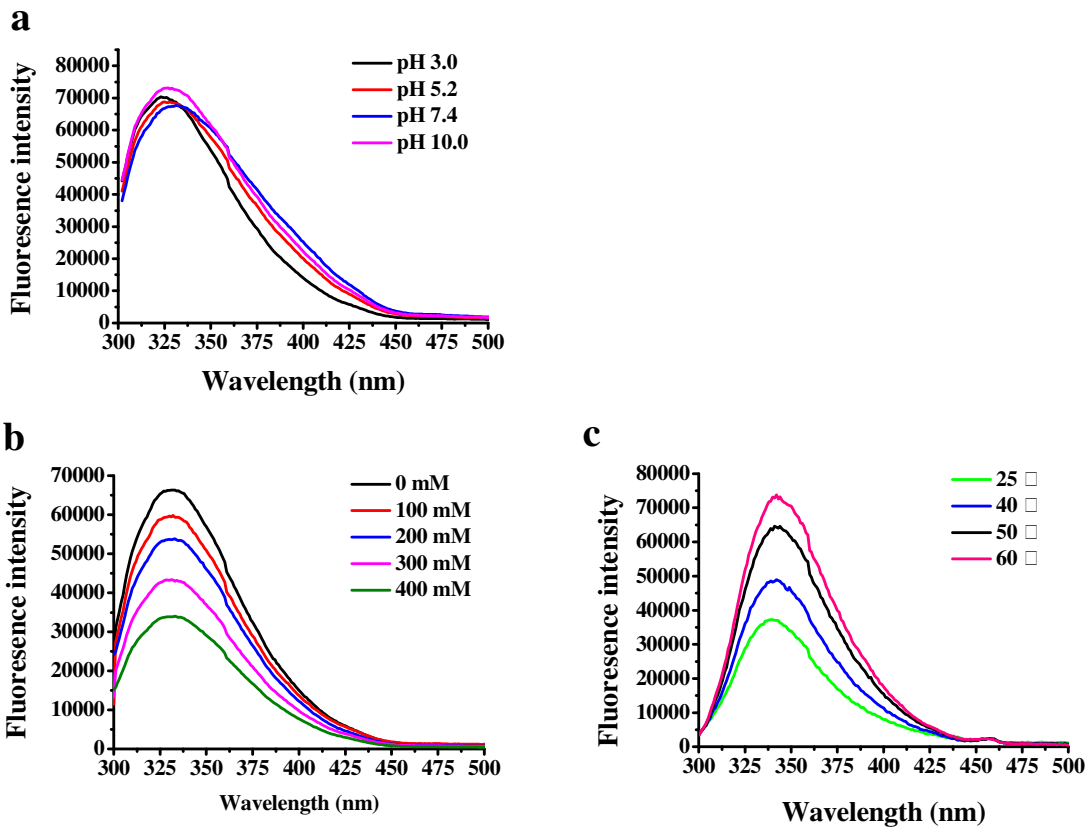

Figure S1. The fluorescence spectra of β-lg with glabridin nanocomplexed with β-lg under different conditions, at an excitation wavelength of 280 nm. (a) fluorescence intensity influenced by pH, (b) fluorescence intensity influenced by variations in ionic strength, and (c) fluorescence intensity influenced by temperature.

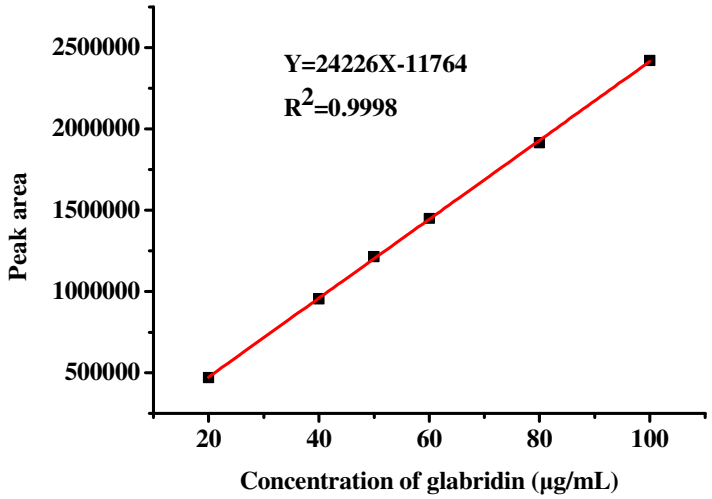

Figure S2. Standard curve of glabridin.

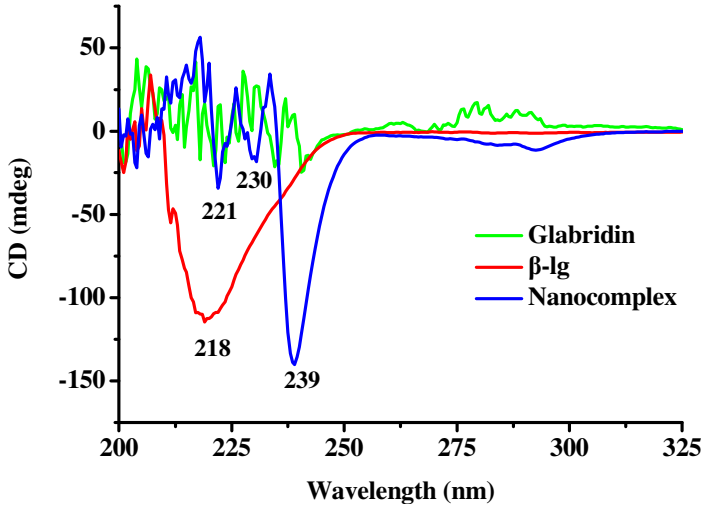

Figure S3. Circular Dichroism measurements of glabridin, β-lg, and nanocomplexed glabridin with β-lg.

Table S1. Concentration and related peak area of glabridin standard solution.

Concentration (μg/mL)	20	40	50	60	80	100
Peak area	471053	953725	1213875	1449306	1913760	2420698

Table S2. The content of different secondary structures of β-lg before and after nanocomplexing with glabridin.

Sample	α-helix	β-sheet	β-turn	random coil
β-lg	28.3%	21.4%	17.9%	32.4%
Nanocomplex	28.4%	17.6%	15.1%	38.9%