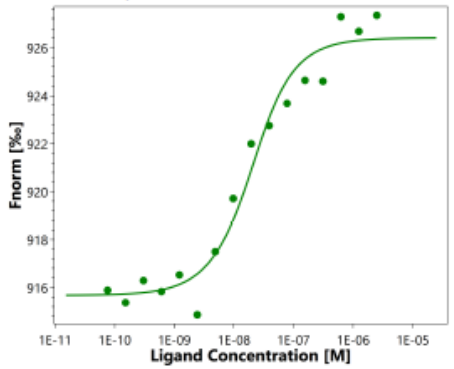
Electronic Supplementary Material (ESI) for Food & Function.

Supplementary Information

Figure S1: Thermophoresis titration original data

Green coffee

Dose Response



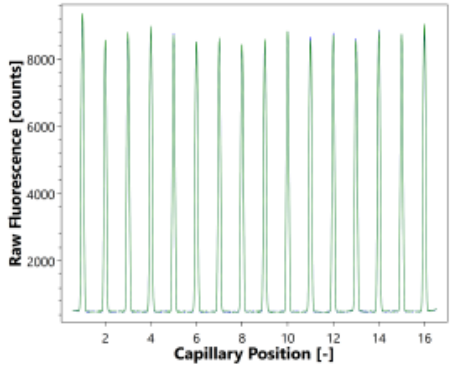
Response Evaluation: On Time 2.5s

Kd model

Unbound	915.7
Bound	926.4
Kd	13 nM
TargetConc	15 nM

Response Amplitude: 10.7
Noise: 0.9
Signal to Noise Ratio: 12.3

Capillary Scans



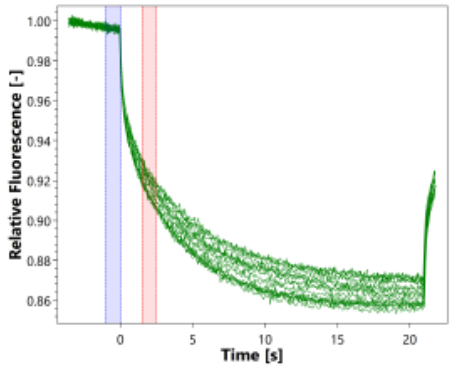
Initial Fluorescence:

Average:	8695 counts
Variation:	±7.1 %

No adsorption

No Ligand Induced Fluorescence Change

MST Traces



Cursor positions:

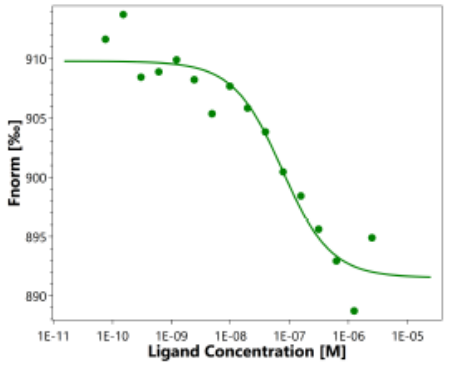
Cold Region:	-1s - 0s
Hot Region:	1.5s - 2.5s

No Aggregation

No Ligand Induced Photobleaching Rate Change

1.875 mg/ml coffee extract

Dose Response



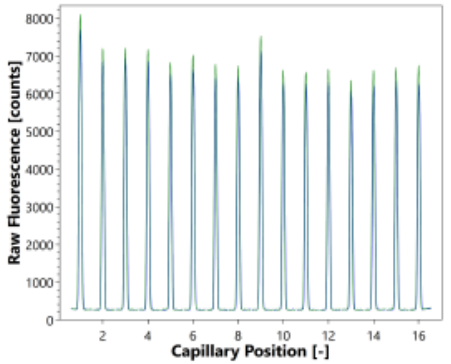
Response Evaluation: On Time 20s

Kd model

Unbound	909.8
Bound	891.5
Kd	67.5 nM
TargetConc	15 nM

Response Amplitude: 18.2
Noise: 2.0
Signal to Noise Ratio: 9.2

Capillary Scans



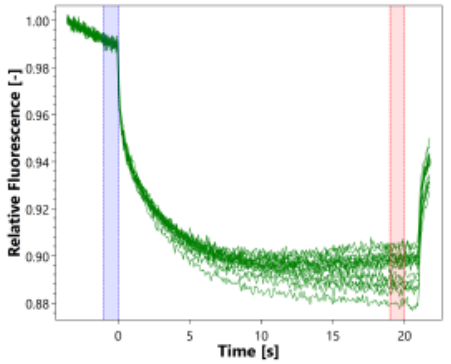
Initial Fluorescence:

Average:	6899 counts
Variation:	±17.1 %

Adsorption

No Ligand Induced Fluorescence Change

MST Traces



Cursor positions:

Cold Region:	-1s - 0s
Hot Region:	19s - 20s

No Aggregation

No Ligand Induced Photobleaching Rate Change

S2: Published structure of Spike protein ACE-2 complex

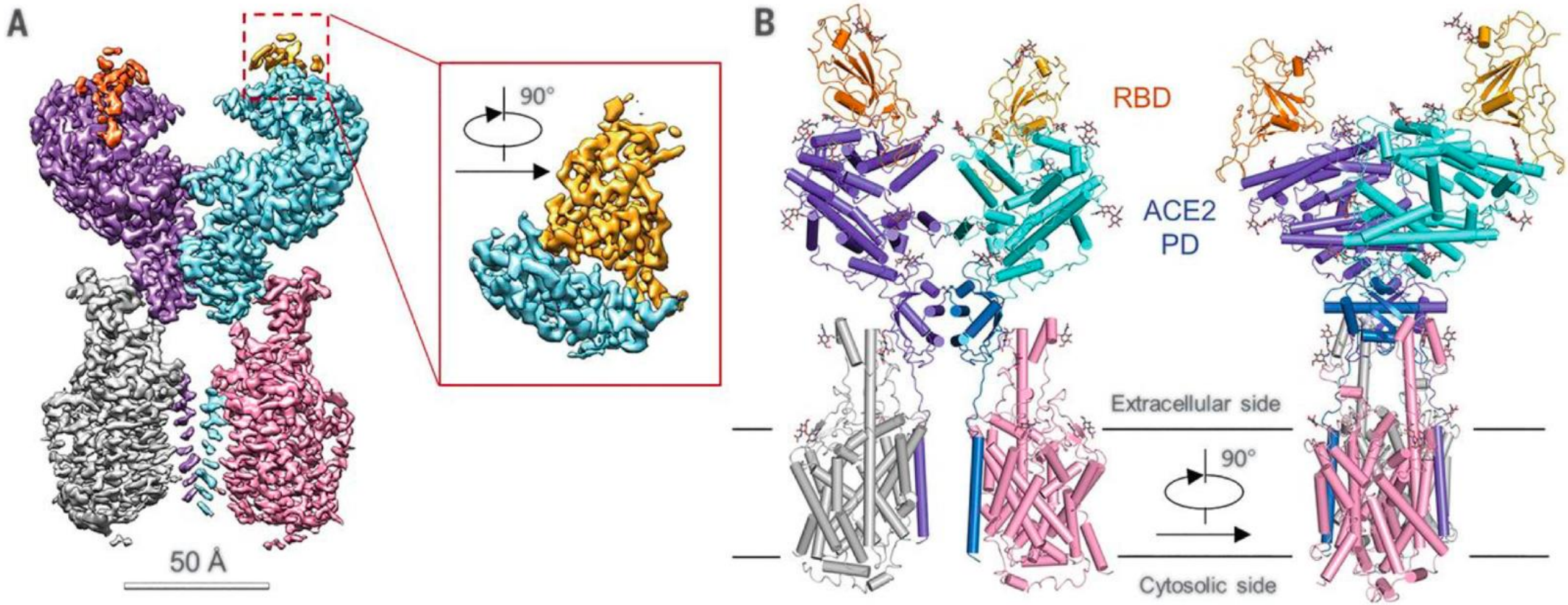
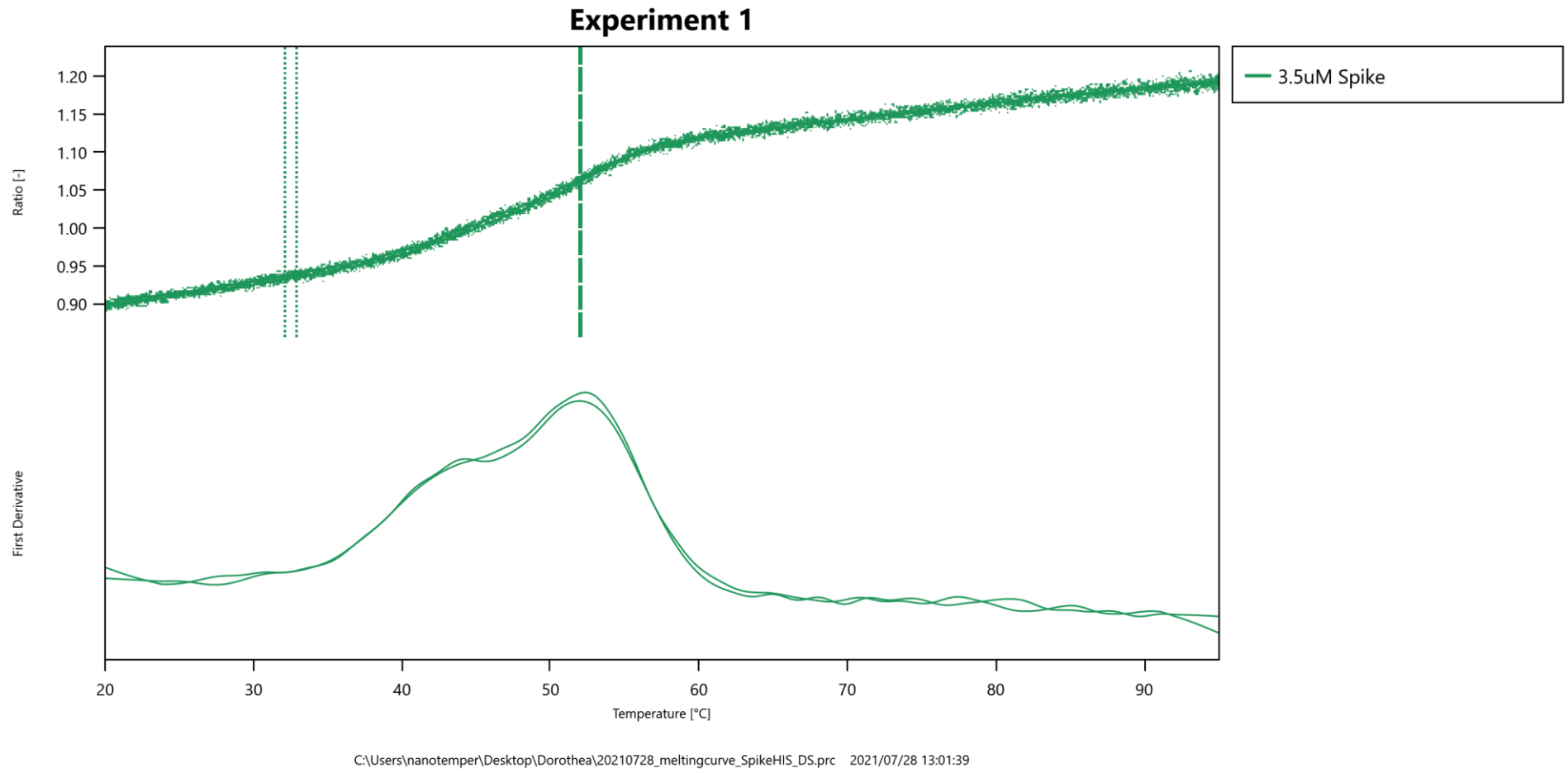
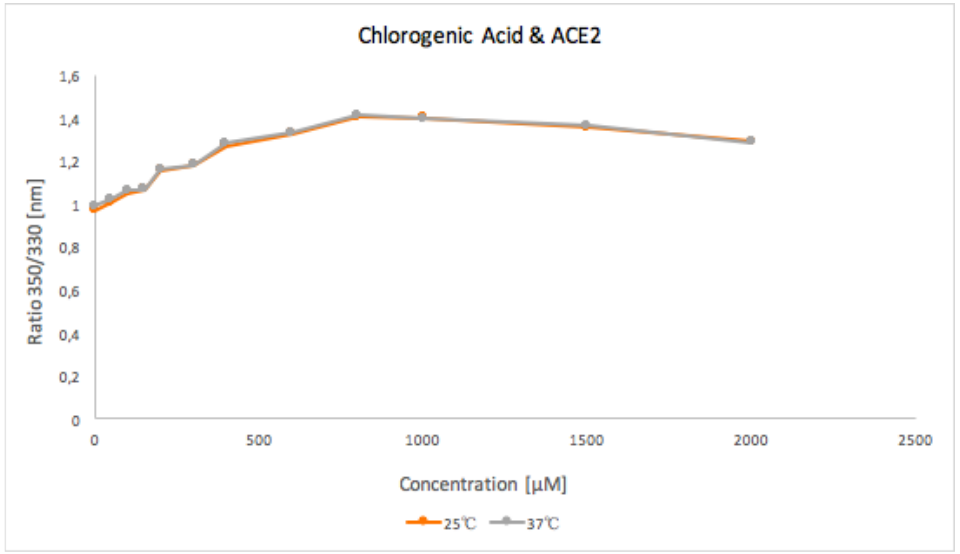


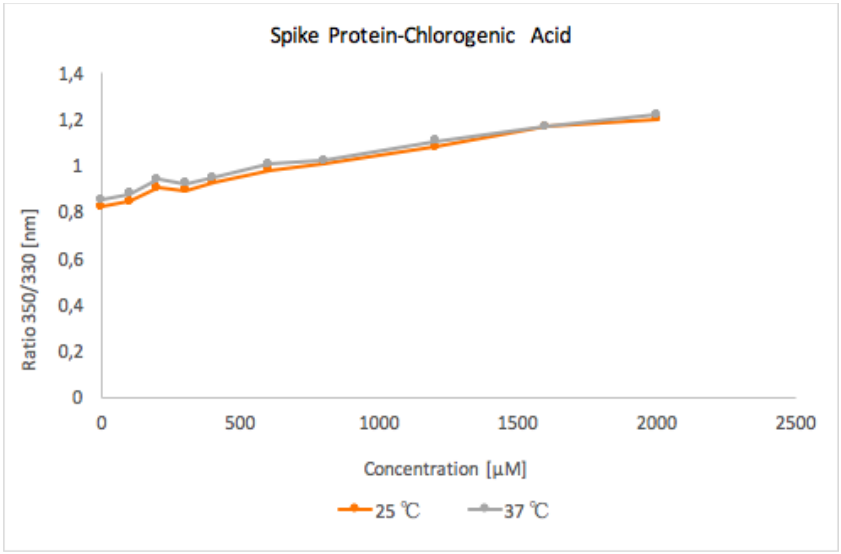
Figure 1: Overall structure of the RBD-ACE2-B0AT1 complex. (A**) Cryo-EM map of the RBD-ACE2-B$_0$AT1 complex. (**B**)**
The overall structure of the RBD-ACE2-B$_0$AT1 complex.
The figure is taken from Yan et al. (2020).

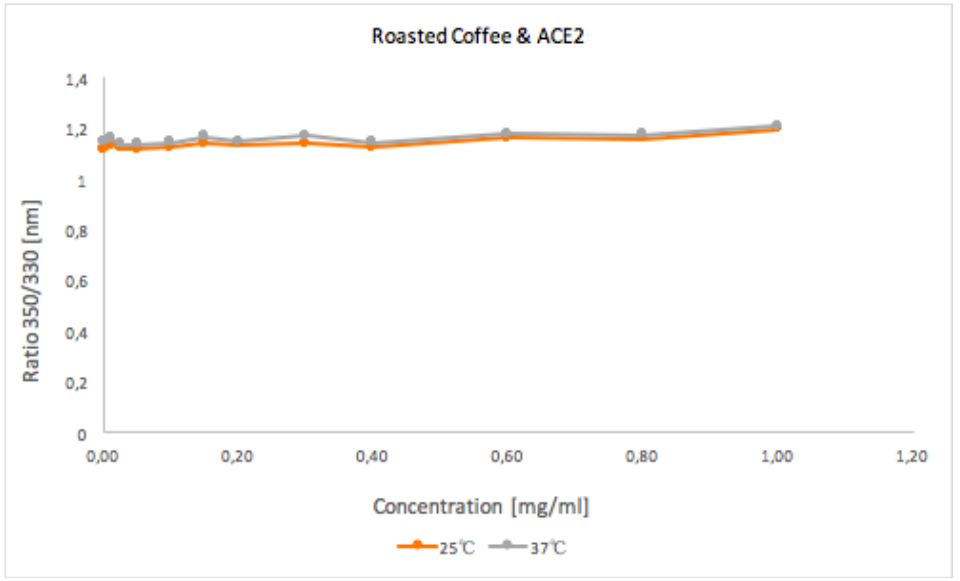
S3: Thermal folding and unfolding of S-üprotein by nano-DSF

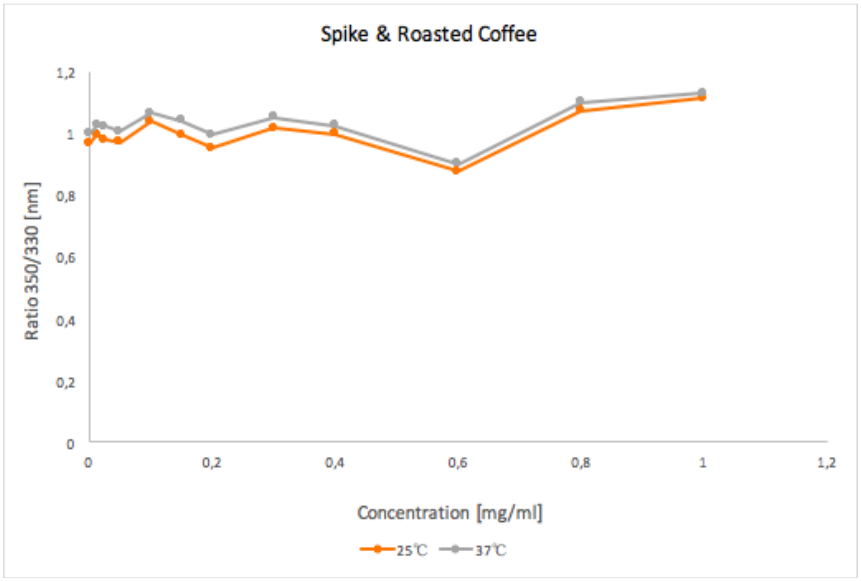


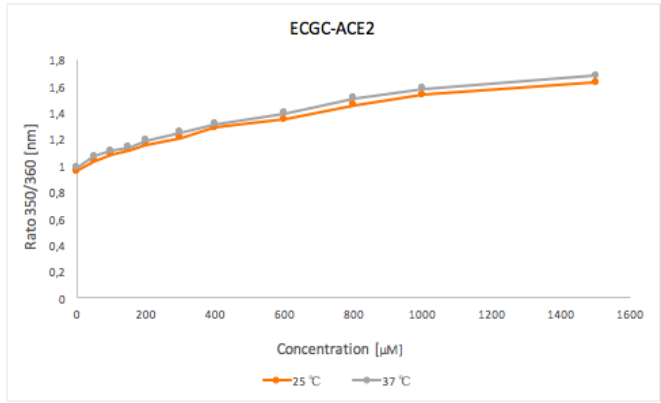
S4: additional nano DSF curves with ACE-2 protein

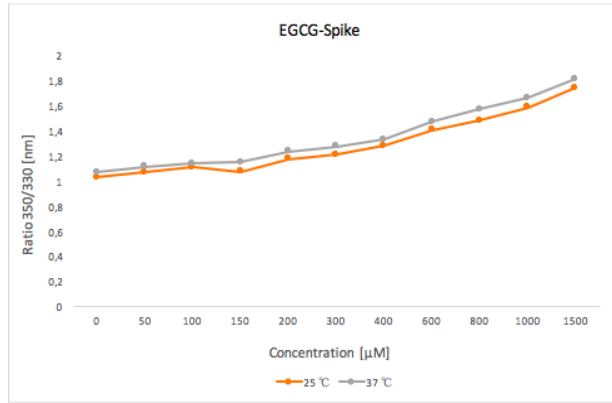


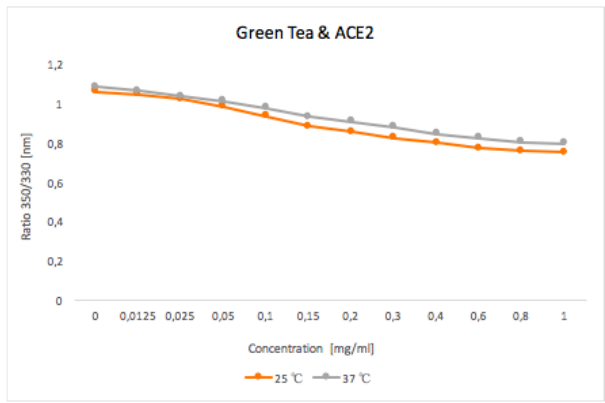


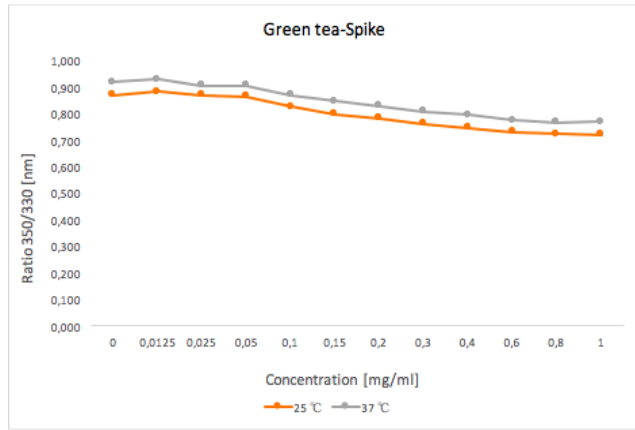


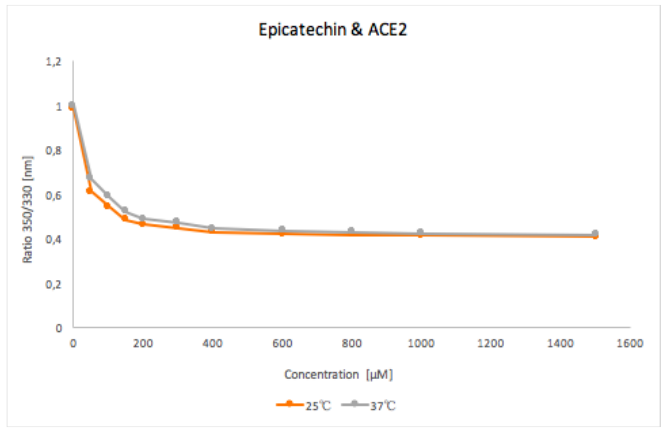


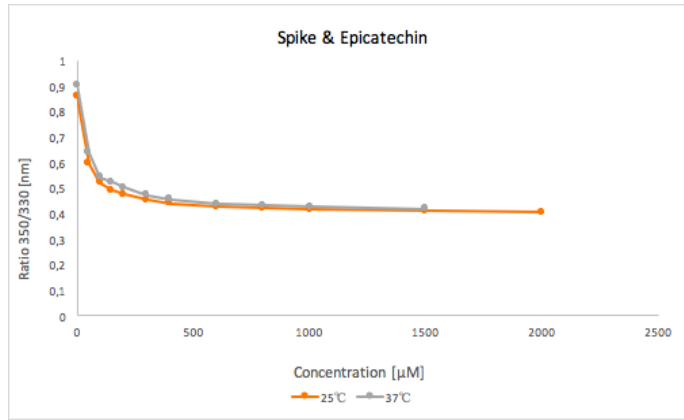

ECGC-ACE2
Rato 350/360 [nm]
Concentration [µM]
25 ℃
37 ℃

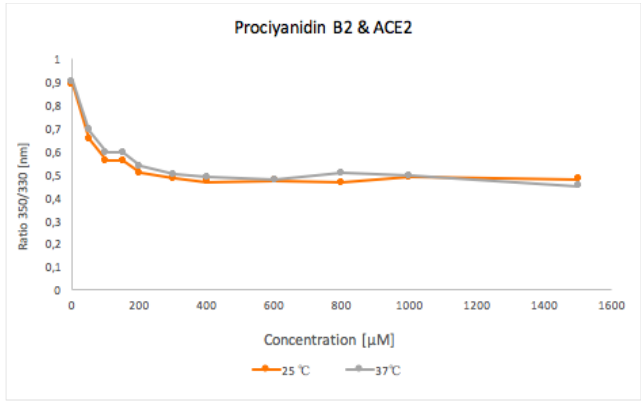

EGCG-Spike
Ratio 350/330 [nm]
Concentration [µM]
25 ℃
37 ℃

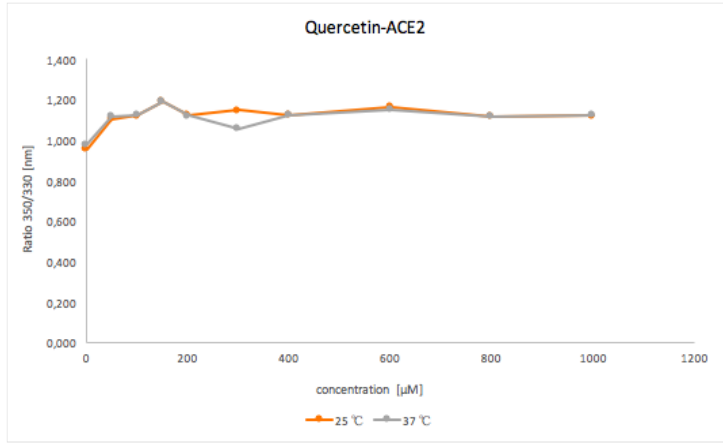

Green Tea & ACE2
Ratio 350/330 [nm]
Concentration [mg/ml]
25 ℃
37 ℃

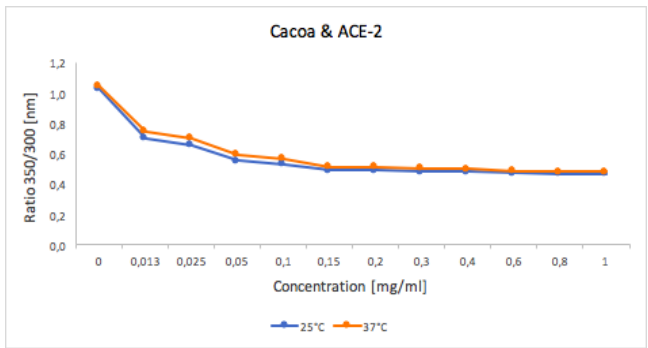

Green tea-Spike
Ratio 350/330 [nm]
Concentration [mg/ml]
25 ℃
37 ℃

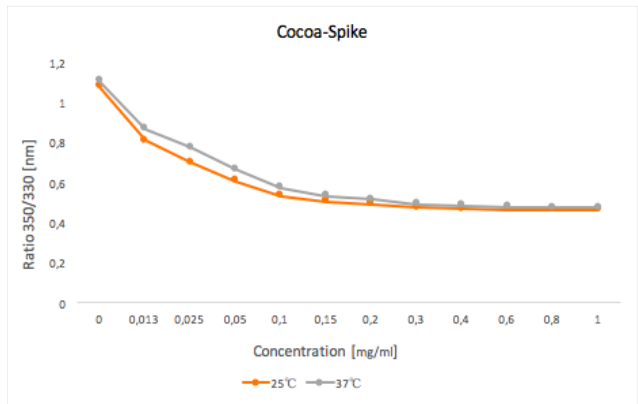

Epicatechin & ACE2
Ratio 350/330 [nm]
Concentration [µM]
25℃
37℃


Spike & Epicatechin
Ratio 350/330 [nm]
Concentration [µM]
25℃
37℃


Prociyanidin B2 & ACE2
Ratio 350/330 [nm]
Concentration [µM]
25 ℃
37℃


Quercetin-ACE2
Ratio 350/330 [nm]
concentration [µM]
25 ℃
37 ℃


Cacoa & ACE-2
Ratio 350/300 [nm]
Concentration [mg/ml]
25℃
37℃


Cocoa-Spike
Ratio 350/330 [nm]
Concentration [mg/ml]
25℃
37℃