

Supplementary materials

Table S1. Intra-day and inter-day precision and accuracy (n = 5).

Theoretical concentration (ng/mL)	Actual concentration (ng/mL)	MRE (%)	RSD (%)
Intra-day			
2	2.055 ± 0.05775	3.1	2.8
20	20.520 ± 0.41020	2.6	2.0
180	179.200 ± 2.98300	1.3	1.7
Inter-day			
2	2.080 ± 0.07749	4.4	3.7
20	20.520 ± 0.39090	2.6	1.9
180	181.500 ± 2.53800	1.3	1.4

Table S2. Extraction recovery of chrysin from rat plasma (n = 5).

Theoretical concentration (ng/mL)	Recovery (%)	RSD (%)
2	90.0 ± 3.7	4.1
20	92.8 ± 3.5	3.8
180	94.7 ± 1.9	2.0

Table S3. Matrix effect of chrysin from rat plasma.

Theoretical concentration (ng/mL)	IS MF (%)	RSD (%)
2	112.6	6.7
20	104.5	5.4
180	103.0	3.5

Table S4. Stability of chrysin in rat plasma under different conditions (n = 5).

Theoretical concentration (ng/mL)	MRE%	RSD%
Storage stability (25 °C, 12 h)		
2	3.1	2.8
20	2.5	1.4
180	1.6	1.7
Storage stability (25 °C, 12 h)		
2	6.3	7.0
20	3.6	3.1
180	3.3	4.7
Storage stability (Freeze-thaw, 3 times)		
2	6.5	4.8
20	3.6	3.4
180	3.1	3.4
Treatment stability (-20 °C, 1 d)		
2	3.8	4.3
20	3.2	3.7
180	1.4	2.0

Table S5. Dilution effect (n = 5).

Dilution ratio	MRE (%)	RSD (%)
2	3.4	1.7
5	1.6	1.5
10	3.3	2.8

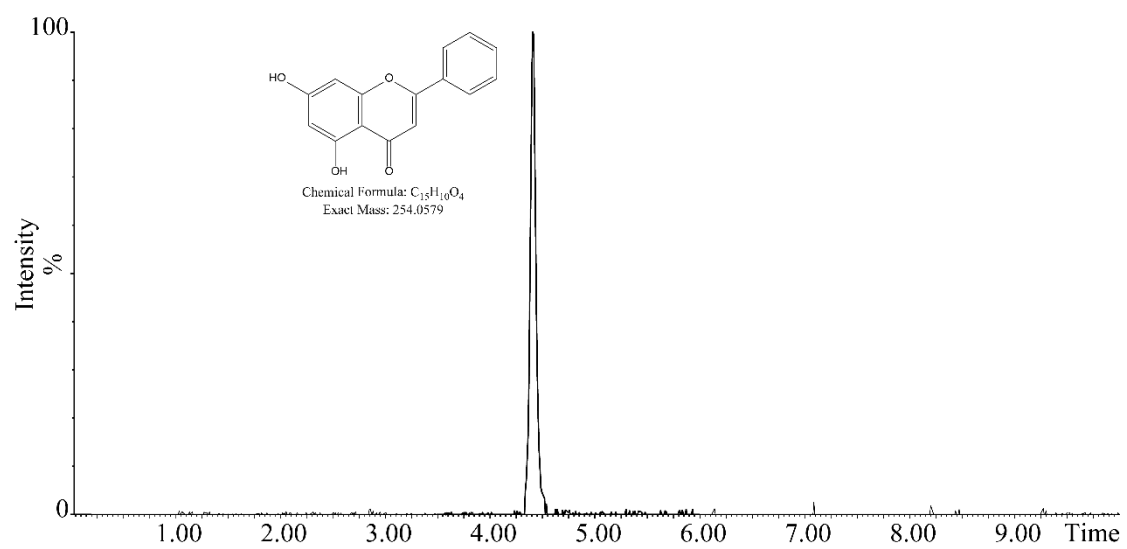


Figure S1. The **eExtracted** ion chromatogram of chrysin at m/z 255.0657 within 10 ppm from LC-QTOF-MS/MS analysis in serum.