

Supplementary materials

Table S1 UPLC conditions

time (min)	95% deionized water +5% acetonitrile +0.1% formic acid (%)	Acetonitrile +0.1% formic acid (%)	Sample volume (μ L)	The velocity (mL /min)
0	100	0	5	0.2
2	100	0	5	0.2
3	90	10	5	0.2
5	60	40	5	0.2
10	10	90	5	0.2
24	1	99	5	0.2
27	1	99	5	0.2
28	100	0	5	0.2
30	100	0	5	0.2

Table S2 MS conditions

Ion source	Desolvent gas flow rate	Desolvent temperature	Cone-hole gas flow	Ion source temperature	Capillary voltage	Taper hole voltage
Temperature and voltage	40L/h	300°C	53 L/h	120°C	4000V (+) 2800V (-)	35V

Table S3 Primer synthesis sequences

The name of the primer	Primer sequences 5'—3'	TM
Nrf-2-F	TTGTAGATGACCATGAGTCGC	22
Nrf-2-R	CCTGCTGCTTGTTTTCCGTA	22
HO-1-F	GTAAAGCGTCTCCACGAGGT	22
HO-1-R	AACTTGGTGGGGTTGTCGAT	23
GAPDH-F	CAGGAGGCATTGCTGATGAT	58.3
GAPDH-R	GAAGGCTGGGGCTCATTT	55.7