SUPPLEMENTARY MATERIAL

A new coumarin isolated from Sarcandra glabra as potential anti-inflammatory agent

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Abstract: One new coumarin, 3, 5-dihydroxy-7-O-\alpha-L-rhamnopyranosyl-2H-chromen-2-one (1), was isolated from the whole plant of Sarcandra glabra. The structure was elucidated by spectroscopic methods. Our results indicated that 1 significantly inhibit nitric oxide (NO) production in LPS induced RAW264.7 macrophages. RT-PCR analysis indicated it inhibited iNOS mRNA expression. In addition, Western blot analysis showed that 1 attenuated LPS-induced synthesis of iNOS protein in the macrophages. These results suggest that 1 could be potential anti-inflammatory agent by down-regulating iNOS expression.

Keywords: Sarcandra glabra; coumarin; RAW264.7; NO; iNOS

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Original spectra data of 3, 5-dihydroxy-7-O-\alpha-L-rhamnopyranosyl-2H-chromen-2-one (1) (Figure S1-S8)
Figure S1 UV spectra of **I**

Figure S2 \(^1\)H-NMR (300 MHz, CD\(_3\)OD) spectra of **I**
Figure S3 $^{13}$C-NMR (75 MHz, CD$_3$OD) spectra of 1

Figure S4 DEPT spectra of 1
Figure S5 HSQC spectra of 1

Figure S6 HMBC spectra of 1
Figure S7 HR-ESI-MS spectra of 1

Figure S8 HR-ESI-MS/MS (m/z 339.0→) spectra of 1