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- α -L-rhamno pyranosyl-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- α -L-rhamnopyranosyl-2H-chromen-2-one (1) (Figure S1-S8)

Figure S1 UV spectra of **1**

Figure S2 ^1H -NMR (300 MHz, CD_3OD) spectra of **1**

Figure S3 ^{13}C -NMR (75 MHz, CD_3OD) spectra of **1**

Figure S4 DEPT spectra of **1**

Figure S5 HSQC spectra of **1**

Figure S6 HMBC spectra of **1**

F: FTMS - p ESI Full ms [100.00-1000.00]

Figure S7 HR-ESI-MS spectra of **1**

F: FTMS - p ESI d Full ms2 339.07@cid30.00 [80.00-350.00]

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