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Aldose reductase inhibitors from *Perilla frutescens* var. *japonica*

Jaemin Lee¹, Jeong Min Lee², Myoung-Hee Lee², Ki Won Oh², Eun Ju Cho³ and Sanghyun Lee¹

¹Chung-Ang University, Republic of Korea

²National Institute of Crop Science, Republic of Korea

³Pusan National University, Republic of Korea

To investigate the therapeutic activities of compounds from natural plant source, the seeds of *Perilla frutescens* var. *japonica* were tested for inhibition of aldose reductase inhibition (ARI). The EtOH extracts of *P. frutescens* var. *japonica* were tested ARI. Additionally, stepwise polarity fractions and compounds from *P. frutescens* var. *japonica* were exhibited ARI. The compounds were identified as luteolin (1), apigenin (2), diosmetin (3), kaempferol (4), β -sitosterol (5), and daucosterol (6) by NMR. As a result, the EtOAc fraction and flavonoids (compounds 1-4) showed good ARI. Our results expect that the seeds of *P. frutescens* var. *japonica* could be useful and helpful ARI materials against various diabetic complications.

Biography

Jaemin Lee is a graduate student at Chung-Ang University, Republic of Korea.

slee@cau.ac.kr

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