Glycosides from *Cephalaria* Species

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Three novel triterpene glycosides (1 – 3), namely lycicoside I, II and cilicicoside I, were isolated from two different *Cephalaria* (Dipsacaceae) species along with one known oleanane- and one iridoid-type of glycoside. The structures of these compounds were established as 3-O-[β-D-glucopyranosyl(1→3)-α-L-rhamnopyranosyl(1→4)-β-D-xylopyranosyl(1→4)-β-D-xylopyranosyl]-28-O-[β-D-gluco- pyranosyl(1→6)-β-D-glucopyranosyl]-oleanolic acid (1), 3-O-[β-D-xylopyranosyl(1→3)-α-L-rhamnopyranosyl(1→4)-β-D-xylopyranosyl]-28-O-[β-D-glucopyranosyl]-oleanolic acid (2) from *Cephalaria lycica* Matthew and 3-O-[β-D-glucopyranosyl(1→4)-β-D-xylopyranosyl(1→3)-α-L-rhamnopyranosyl(1→2)-[β-D-glucopyranosyl(1→3)]-α-L-rhamnopyranosyl]-28-O-[β-D-glucopyranosyl(1→6)-β-D-glucopyranosyl]-hederagenin (3) from *Cephalaria ciliicica* Boiss. & Kotschy, on the basis of spectroscopic methods (1D and 2D NMR techniques, mass spectrometry) and chemical evidence. In addition, three new prosapogenins, 1B – 3B, were obtained from the basic hydrolysis of 1 – 3. The antimicrobial activity of 1 – 3 was tested against some Gram-positive and Gram-negative bacteria strains.

*Key words:* Dipsacaceae, *Cephalaria*, Oleanane and Hederagenin Glycosides, Lycicoside I and II, Cilicicoside I