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Abstract: From the roots of *Verbascum lasianthum* Boiss. ex Benth 4 catalpol derivatives, 6-O-(α -L-rhamnopyranosyl)-catalpol (1), verbascoside A [= 6-O-(4''-O-trans-p-methoxycinnamoyl)- α -L-rhamnopyranosylcatalpol] (2), pulverulentoside I [= 6-O-(3''-O-acetyl-2''-O-trans-p-methoxycinnamoyl)- α -L-rhamnopyranosylcatalpol] (3), and buddlejoside A₅ [= 6-O-(2''-O-acetyl-3''-O-trans-p-methoxycinnamoyl)- α -L-rhamnopyranosylcatalpol] (4), as well as aucubin (5) and an aucubin derivative, unduloside III [= 6-O-(3''-O-trans-p-methoxycinnamoyl)- α -L-rhamnopyranosylaucubin] (6), were isolated and characterized. The structure elucidation of the compounds was established on the basis of spectroscopic evidence. Buddlejoside A₅ (4) was found for the first time in the genus *Verbascum*.

Key Words: *Verbascum lasianthum* Boiss. ex Benth, Scrophulariaceae, iridoid glycosides, 6-O-(α -L-rhamnopyranosyl)-catalpol, verbascoside A, pulverulentoside I, buddlejoside A₅, aucubin, unduloside III

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