Juglomycins G-J: Isolation from Streptomyces and Structure Elucidation


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Dedicated to Prof. Dr. K. Krohn on the occasion of his 60th birthday

From the Streptomyces spp. 815 and GW4184, four new 4-juglon-2-ylbutyric acid derivatives, the juglomycins G – J (3a, 4a, 4c, 5c), have been isolated and characterised. The structures were derived from the 1D and 2D NMR data and mass spectra and confirmed by comparison with structurally related compounds. The absolute configuration was deduced from the CD spectra. The new natural products exhibited weak antibacterial activity similar to juglomycin A (5a).

Key words: Juglomycin, Juglon, Streptomyces