



New Nitrogenous Compounds from *Anisotes trisulcus*

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Abstract:

Re-investigation of the methanolic extract of *Anisotes trisulcus* (Forssk.) Nees aerial parts led to the isolation of two new tricyclic quinazoline alkaloids, 8-amino-7,8,9,11-tetrahydro-6H-pyrido[2,1-b]quinazoline-2,6-diol (4) and 8-amino-3,6-dihydroxy-7,8,9-trihydro-6H-pyrido[2,1-b]quinazoline-11-one (5), and two quaternary ammonium compounds, (dimethylamino)-N-(hydroxymethyl)-N,N-dimethyl methanaminium chloride (6) and N-[(carboxyamino)methyl]-N,N-dimethyl ethanaminium chloride (7), together with three known compounds, peganine (1), vasicinone (2), and anisotine (3). The structures of these compounds were established on the basis of physical, chemical, and spectral data (UV, IR, MS, 1D and 2D NMR), as well as by comparison with authentic samples. GC-MS analysis of the fatty acid methyl esters and unsaponifiable matter revealed the presence of 46 fatty acids, 53 hydrocarbons, and 18 sterols. The different extracts were evaluated for their antihyperglycaemic activities. The MeOH, n-hexane, and EtOAc extracts exhibited a significant hypoglycaemic effect.

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