

Structure of Tyrolobibenzyl D and Biological Activity of Tyrolobibenzyls from *Scorzonera humilis*

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Z. Naturforsch. **57c**, 614–619 (2002); received April 2/May 2, 2002

Scorzonera, Bibenzyl Derivatives, Biological Activity

A novel tyrolobibenzyl derivative, 1→6-β-D-apiosyl-β-D-glucopyranosyl 4-[2-(4-hydroxyphenyl)ethyl]benzofuran-2-carboxylate **3** (tyrolobibenzyl D) was isolated from *Scorzonera humilis* L. and its structure established by mass spectrometry and 1D- and 2D-NMR spectroscopy. The biological activities of the new compound and related tyrolobibenzyls A–C (**1–2**, **4**) and the semi-synthetic peracetyl derivatives of tyrolobibenzyls B (**2a**) and C (**4a**) were assessed. The results revealed no cytotoxic activity against P388 cells and neither anti-bacterial activity against *Bacillus subtilis* nor antifungal activity against *Candida albicans* and *Trichophyton mentagrophytes* for any of the investigated compounds. An evaluation of potential chemopreventive activity of **2**, **2a**, **4**, and **4a** also revealed no pronounced activity in any of the employed assaying systems.