

## PP 66. NATURAL COMPOUND FROM THE AERIAL PART OF *SILENE TOMENTELLA* SCHISCHK.

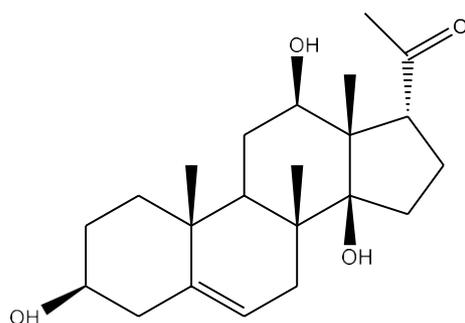
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Steroid glycosides are a class of wide-spread natural products having either terrestrial or marine origins. Terrestrial representatives of this class, isolated from different higher plants are well known and include toxic, heart-arresting glycosides of cardenolide type (so-called cardiac glycosides), spirostan and furostan steroid saponins, pregnane glycosides and some other structural groups.

*Silene* is a large genus with more than 700 species growing in various temperate regions of the world. On the basis of the biological activities reported for *Silene* species, the phytochemical investigation of *Silene tomentella* was carried out. *S. tomentella* was collected in June, 2019 from Tashkent Navoi region of the hills and the plant materials were identified by Dr. Nigmatullayev A.M. at the Institute of the Chemistry of Plant Substances (ICPS), Uzbekistan.

A methanol extract of the roots of *S. tomentella* was suspended in H<sub>2</sub>O and partitioned with hexane and n-BuOH. The BuOH-soluble extract (15.7 g) was subjected to CC (SiO<sub>2</sub> (780g); AcOEt/MeOH gradient 100:0; 0:100) to yield 18 fractions (Frs. A – R). Fr. H (4.5 g; AcOEt/MeOH 4:1) was subjected CC (SiO<sub>2</sub> (200 g); with MeOH/H<sub>2</sub>O 0:100, 10:90, 30:70, 50:50, 70:30, 100:0) to yield six fractions (Frs. H1 – H6). Fr. H6 (12.2 mg; asetonitril/H<sub>2</sub>O 0:100-100:0), which was purified by Sephadex G-15 and yielded one individual compound: lineolon (1) (3.4 mg). The structures of all compounds were determined using chemical and spectroscopic methods, such as 1D and 2D nuclear magnetic resonance (NMR).



**Lineolon (1)**

This compound lineolon (1) belonging to steroid glycoside is known, was isolated from aerial part of *Silene tomentella* for the first time.