

CHEMICAL CONSTITUENTS OF *Ferula tadshikorum* PIMENOV

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The genus *Ferula* (Apiaceae) comprises around 180–185 species that occur from Central Asia to Northern Africa [1]. The chemical components of essential oils derived from various *Ferula* species have been shown to exhibit a wide range of biological activities. *Ferula tadshikorum* Pimenov is a medicinal plant that is endemic to Uzbekistan. Today, it is mainly cultivated there for export to the rest of the world [2]. In our ongoing study, five compounds were isolated from *F. tadshikorum* by using silica column (CC) and Flash chromatography, Sephadex LH-20 chromatography, along with preparative-HPLC. Their structures were comprehensively elucidated by HRESI-MS, UV, IR, NMR experiments as umbelliferone (1), 4,7-dimethoxy-5-(propanoyl)benzo[d][1,3]dioxole (2), 3-methoxy-4,5-methylenedioxypropiofenone (3), dibutyl phthalate (4), grilactone (5), respectively (Figure 1). All compounds were isolated from this species for the first time.

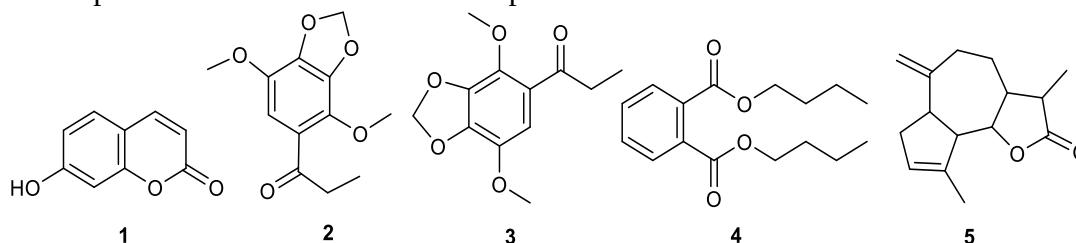


Figure 1. Chemical structures of compounds **1–5** isolated from *F. tadshikorum*

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