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Phenolic Constituents from *Bergenia crassifolia* with Anti-lipid Accumulation and Vasorelaxant Activities

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[Introduction] Our research for novel lead natural products from Kazakh medicinal plants led to isolation of a new galloylbergenin 3,11-*di-O*-galloylbergenin (1) along with ten known phenolic constituents from the roots of *B. crassifolia*. Their structures were elucidated by spectroscopic and chemical analysis. They showed moderate anti-lipid accumulation and vasorelaxant activities.

[Results and discussion] The roots of *B. crassifolia* were extracted with 70% EtOH, and a part of the extract was partitioned with *n*-hexane, CHCl₃, *n*-BuOH, and H₂O. The *n*-BuOH layer was separated using a HP-20 column, a Sephadex LH-20 column, an ODS column, and preparative HPLC to afforded a new galloylbergenin, 3, 11-*di-O*-galloylbergenin (1) together with two known bergenin derivatives, two catechin gallates and six flavonoids. Their structures were determined on the basis of the 2D NMR and enzymatic hydrolysis. 3,11-*Di-O*-galloylbergenin (1) and 4,11-*di-O*-galloylbergenin (2) exhibited moderate anti-lipid accumulation activities, and quercetine-3-*O*-arabinoside(9) showed vasorelaxant activity.

