

Studies on the anti-coagulant component of
Loranthus yadoriki

Sun Kyung Lee^{1,2*}, Hee Sun Song¹, Eun A Yoo² and Hyun Ok Yang^{1,3}

¹Dept. of Molecular Medicine, Asan Institute for Life Sciences, College of Medicine, University of Ulsan, ²Dept. of Chemistry, Sungshin Women's University, ³Dept. of Anesthesiology & Pain Medicine, College of Medicine, University of Ulsan

Methanol extract of *Loranthus yadoriki* showed the prolongation effect of bleeding time *in vivo* using mice in dose dependent manner. From the MeOH extract of *Loranthus yadoriki*, compound-A was isolated by the activity guided isolation method using silicagel column chromatography. The anti-coagulant activity was evaluated by the bleeding time test *in vivo* and plasma recalcification time test *in vitro*. Compound A showed moderate anti-coagulant activity on plasma recalcification time *in vitro*.

The structure of the purified compound was elucidated as quebrachitol (2-O-methyl-L-inositol) by IR, EI-Mass, ¹H-NMR, ¹³C-NMR, ¹H-¹H COSY, HSQC NMR, polarimetry, element analyzer. These results suggest that compound A from *Loranthus yadoriki* can be applied to develop new drugs for anti-coagulant agent.