

A novel rearranged eudesmane sesquiterpene with a new 5/7 membered bicyclic-ring-system, jasomontanone, was isolated from *Jasonia montana*. Its structure was determined as (3a*R**, 6*R**, 8a*R*)-3a-(hydroxymethyl)-6-(2-hydroxy-propan-2-yl)-8a-methyl-octahydrazulen-4(5*H*)-one by analysis of spectroscopic data (IR, HR-MS, ¹H and ¹³C NMR), including 2D NMR (¹H-¹H COSY, HMQC, HMBC and NOESY), chemical transformation, and biogenetic consideration.