

Ácido grandiflorénico

Características físicas

Brieskorn CH, Poehlmann E. 1969. Kaura-9(11)16-dien-19-oic acid and 15 α -acetoxy-kaur-16-en-19-oic acid. Chem Ber 102(8): 2621-2628.

Punto de fusión y rotación específica

Zamilpa A, Tortoriello J, Navarro V, Delgado G, Alvarez L. 2002. Antispasmodic and antimicrobial diterpenic acids from Viguiera hypargyrea roots. Planta Med 68(3): 281-283.

RMN¹H, COSY, HMQC, EM

Enriquez RG, Miranda-G E, Ortiz B, Leon I, Peña WF, Gnecco D. 1996. The unambiguous detection of kaurenic derivatives in aqueous infusions of Montanoa tomentosa by GC-MS and 2D-NMR spectroscopy. An answer to contradictory reports. Planta Med 62(6): 569-571.

HMBC, HSQC, COLOC, FLOCK

Reynolds WF, Enriquez RG. 2001. Gradient-selected versus phase-cycled HMBC and HSQC: pros and cons. Magn Reson Chem 39(9): 531-538.

Rayos X

Reynolds WF, Lough AJ, Sqwyer JF, Enriquez RG, Ortiz B, Walls F. 1991. Structure of (4 α)- Kaura-9(11),16-dien-18-oic acid (grandiflorenic acid), an Active ingredient of the Mexican medicinal plant zoapatle Acta Crystallogr Sect C: Cryst Struct Commun C47(5): 973-977.

Actividad cardiovascular y diurética

Somova LI, Shode FO, Moodley K, Govender Y. 2001. Cardiovascular and diuretic activity of kaurene derivatives of Xylopia aethiopica and Alepidea amatymbica. J Ethnopharmacol 77(2-3): 165-174.

Potencial actividad curativa de heridas, inhibiendo la fase inflamatoria al reducir citoquinas de macrófagos de células Raw 264.7

Balekar N, Nakpheng T, Srichana T. 2013. Wound-healing potential of grandiflorenic acid isolated from Wedelia trilobata (L.) leaves. Songklanakarin Journal of Science and Technology 35(5): 537-546.

Efecto estimulante en células de fibroblastos L929, indicando actividad potencial en la cura de heridas

Balekar N, Nakpheng T, Srichana T. 2013. In vitro stimulatory effect of grandiflorenic acid isolated from Wedelia trilobata (L.) leaves on L929 fibroblast cells. Thai Journal of Pharmaceutical Sciences 37(3): 117-124.

Efecto vaso relajante en anillos aórticos.

Mondolis E, Moran-Pinzon JA, Rojas-Marquez FA, Lopez-Perez JL, Abad A, Amaro-Luis JM, Guerrero de Leon E. 2013. Vasorelaxant effects in aortic rings of eight diterpenoids isolated from three Venezuelan plants. Revista Brasileira de Farmacognosia 23(5): 769-775.