

Leukodina

Características físicas, punto de fusión, Rotación específica, UV, IR, RMN¹H y RMN¹³C

Ordóñez PE, Quave CL, Reynolds WF, Varughese KI, Berry B, Breen PJ, Malagon O, Smeltzer MS, Compadre CM. 2011. Sesquiterpene lactones from *Gynoxys verrucosa* and their anti-MRSA activity. *J Ethnopharmacol* 137(2): 1055-1059.

EM

Glasl S, Mucaji P, Werner I, Presser A, Jurenitsch J. 2002. Sesquiterpenes and flavonoid aglycones from a hungarian taxon of the *Achillea millefolium* group. *Z Naturforsch C: Biosci* 57(11/12): 976-982.

Actividad antimicrobiana contra bacterias G(+)

Jamila N, Khaiyuddean M, Khan SN, Khan N, Osman H. 2014. Phytochemicals from the bark of *Garcinia hombroniana* and their biological activities. *Records of Natural Products* 8(3): 312-316.

Actividad anti fúngica débil

Picman AK. 1984. Antifungal activity of sesquiterpene lactones. *Biochem Syst Ecol* 12(1): 13-18.

Otras referencias

- Liu SH, Liao ZX, Liu C, Ji LJ, Sun HF. 2014. Two sesquiterpenes from *Artemisia sieversiana*. *Fitoterapia* 97: 43-49.
- Michalska K, Kisiel W. 2013. Structural diversity of sesquiterpene lactones in roots of *Lactuca viminea*. *Biochem Syst Ecol* 51: 16-18.
- Acikara OB, Citoglu GS, Cvacka J, Zemlicka M. 2012. A new triterpene from *Scorzonera latifolia* (Fisch. And meyer.) DC. *Nat Prod Res* 26(20): 1892-1897.
- Smelcerovic A, Lamosheft M, Radulovic N, Ilic D, Palic R. 2010. LC-MS Analysis of the essential oils of *Achillea millefolium* and *Achillea crithmifolia*. *Chromatographia* 71(1-2): 113-116.
- Pauku Y, Rasulev B, Syrov V, Khushbaktova Z, Leszczynski J. 2008. Structure-hepatoprotective activity relationship study of sesquiterpene lactones: a QSAR analysis. *Int J Quantum Chem* 109(1): 17-27.
- Michalska K, Kisiel W. 2007. Further sesquiterpene lactones and phenolics from *Cichorium spinosum*. *Biochem Syst Ecol* 35(10): 714-716.
- Kristallovich EL, Sham'ynov ID. 2003. IR-and UV spectral study of leucomisin and its modifications. *Chem Nat Compd* 39(1): 5-7.
- De Kraker JW, Franssen MCR, Joernik M, De Groot A, Bouwmeester HJ. 2002. Biosynthesis of costunolide, dihydrocostunolide, and leukodin. Demonstration of cytochrome P450-catalyzed formation of the lactone ring present in sesquiterpene lactones of chicory. *Plant Physiol* 129(1): 257-268.
- Balboul BAAA, Ahmed AA, Otsuka H, Bando M, Kido M, Takedat Y. 1997. A guaianolide and a germacranolide from *Achillea santolina*. *Phytochemistry* 46(6): 1045-1049.
- Marco JA, Sanz-Cervera JF, Garcia-Lliso V, Batle N. 1997. Sesquiterpene lactones from *Artemisia lucentica*. *Phytochemistry* 45(4): 755-763.
- Marco JA, Sanz-Cervera JF, Sancenon F, Arno M, Valles-Xirau J. 1994. Sesquiterpene lactones and acetylenes from *Artemisia reptans*. *Phytochemistry* 37(4): 1095-1099.
- Giordano OS, Pestchanker MJ, Guerreiro E, Saad JR, Enriz RD, Rodriguez AM, Jauregui EA, Guzman J, Maria AOM, Wendel GH. 1992. Structure-activity relationship in the gastric cytoprotective effect of several sesquiterpene lactones. *J Med Chem* 35(13): 2452-2458.
- Oksuz S, Gumus S, Alpınar K. 1991. Sesquiterpenoids of *Achillea* species. *Biochem Syst Ecol* 19(5): 439.

- Abou EEM, Jakupovic J, Bohlmann F, Ahmed AA, El-Din AS, Khafagi S, Sabri N, El-Ghazouly M. 1990. seco-Germacranolides from *Anthemis pseudocotula*. *Phytochemistry* 29(8): 2704-2706.
- Stefanovic M, Djermanovic V, Gorunvic M, Djermanovic M, Macura S, Milosvljevic S. 1989. *Phytochemistry* 28(6): 1765-1767.
- Martinez VM, Munoz-Zamora A, Joseph-Nathan P. 1988. Conformational analysis of achillin and leukodin. *J Nat Prod* 51(2): 221-228.
- Abeysekera BF, Abramowski Z, Towers GHN. 1985. Chromosomal aberrations caused by sesquiterpene lactones in Chinese hamster ovary cells. *Biochem Syst Ecol* 13(3): 365-369.
- Bohlmann F, Zdero C, King RM, Robinson H. 1984. 2-Acetoxy-3a,4a-epoxy-3,4-dihydrokauniolide from *Grosvenoria coelocaulis*. *Phytochemistry* 23(5): 1187-1188.
- Bohlmann F, Gupta RK, Jakupovic J. 1982. Naturally occurring terpene derivatives. Part 376. A further sesquiterpene lactone esterified with a sesquiterpenic acid. *Phytochemistry* 21(2): 460-461.
- Picman AK, Ranieri RL, Towers GHN, Lam L. 1980. Visualization reagents for sesquiterpene lactones and polyacetylenes on thin-layer chromatograms. *J Chromatogr* 189(2): 187-198.
- Guerrero J, Enriquez R, Salazar I, Diaz E. 1974. Lanthanide induced displacement in the PMR of guaianolides and pseudoguaianolides. *Rev Latinoam Quim* 5(3): 169-175.
- Romo de Vivar A, Olmos F. 1968. Chemical study of *Achillea millefolium*. *Rev Soc Quim Mex* 12(5): 212-213.
- White EH, Marx JN. 1967. The synthesis and stereochemistry of deacetoxymatricarin and achillin. *J Am Chem Soc* 89(21): 5511-5513.
- White EH, Winter REK. 1963. Natural products from *Achillea lanulosa*. *Tetrahedron Lett* 137-140.