

Acacetina

Características físicas y punto de fusión

The Index Merck: an encyclopedia of chemicals, drugs, and biologicals. 15th. ed. Whitehouse Station, NJ USA: Merck & Co INC, 2013.

inhibición de Fosfatidilinositol-3-kinasa (PI3-K) suprimiendo el desarrollo de células de melanoma.

Jung SK, Kim JE, Lee SY, Lee MH, Byun S, Kim YA, Lim TG, Reddy K, Huang Z, Bode AM et al. 2014. The P110 subunit of PI3-K is a therapeutic target of acacetin in skin cancer. *Carcinogenesis* 35(1): 123-130.

Actividad anti-inflamatoria y antinociceptiva.

Carballo-Villalobos AI, Gonzalez-Trujano ME, Lopez-Munoz FJ. 2014. Evidence of mechanism of action o fanti-inflamatory/antinociceptive activities of acacetin. *European Journal of Pain* 18(3): 396-405.

Bloqueo los canales de potasio Kv1.3 en células T humanas, lo cual contribuya a su efecto modulador y anti-inflamatorio.

Zhao N, Dong Q, Fu XX, Du LL, Cheng X, Du YM, Liao YH. 2014. Acacetin blocks Kv1.3 channels and inhibits human T cell activation. *Cell Physiol Biochem* 34(4): 1359-1372.

Otras referencias:

- Marzouk MM, Hussein SR, Kassem MES, Kawashty SA, El Negoumy SIM. 2015. Phytochemical constituents and chemosystematic significance of Chrozophora tinctoria (L.) Raf. *Nat Prod Res* Ahead of Print.
- Sudhakar Y, Padmaja Y. 2014. Investigation of analgesic, anti-inflammatory and antipyretic potencial potencial of ethanolic extracto f Arial parts of Flemingia chappar Graham. *International Journal of Advances in Pharmacy, Biology and Chemistry* 3(1): 42-53.
- Silva DB, Lopes NP. 2015. MALDI-MS of flavonoids: a systematic investigation of ionization and in-source dissociation mechanisms. *J Mass Spectrom* 50(1): 182-190.
- Pacifico S, Galasso S, Piccolella S, Kretschmer N, Pan SP, Marciano S, Bauer R, Monaco P. 2015. Seasonal variation in phenolic composition and antioxidante and anti-inflammatory activities of Calamintha nepeta (L.) Savi. *Food Res Int* 69: 121-132.
- Jackson DA, Setzer WN. 2013. Selective phosphoinositide 3-kinase inhibition by natural products. A molecular Docking study. 5(6): 303-311.
- Zhao M, Du L, Tao J, Qian D, Shang E, Jiang S, Guo J, Liu P, Su S, Duan J. 2014. Determination of metabolites of diosmetin-7-O-glucoside by a newly isolated Escherichia coli from human gut using UPLC-Q-TOF/MS. *J Agric Food Chem* 62(47): 11441-11448.
- Ratajewski M, Grzelak I, Wisniewska K, Ryba K, Gorzkiewicz M, Walczak-Drzewiecka A, Hoffmann M, Dastych J. 2015.
- Galasso S, pacifico S, Kretscmer N, Pan SP, Marciano S, Piccolella S, Monaco P, Bauer R. 2014. Influence of seasonal variation on Thymus longicaulis C. Presl Chemicals composition and antioxidante and anti-inflammatory properties. *Phytochemistry* 107: 80-90.
- Lee PS, Shin I, Seo SY, Kim H, Kim HP. 2014. Upregulation of both heme oxygenase-1 and ATPase inhibitory factor 1 renders tumoricidal activity by synthetic flavonoids via depleting. *Bioorg Med Chem Lett* 24(20): 4845-4849.
- Lin TY, Huang WJ, Wu CC, Lu CW, Wang SJ. 2014. Acacetin inhibits glutamate release and prevents kainic acid-induced neurotoxicity in rats. *PLoS One* 9(2): e88644/1-e88644/10.

- Aguiar SC, Cottica SM, Boeing JS, Samensari RB, Santos GT, Visentainer JV, Zeoula LM. 2014. Effect of feeding phenolic compounds from propolis extracts to Dairy cows on milk production, milk fatty acid composition, and the antioxidant capacity of milk. *Animal Feed Science and Technology* 193: 148-154.
- Poor M, Veres B, Jakus PB, Antus C, Montsko G, Zrinyi Z, Vladimir-Knezevic S, Petrik J, Koszegi T. 2014. Flavonoid diosmetin increases ATP levels in kidney cells and relieves ATP depleting effect of ochratoxin A. *J Photochem Photobiol B* 132: 1-9.
- Kim HR, Park CG, Jung JY. 2014. Acacetin (5,7-dihydroxy-4'-methoxyflavone) exhibits in Vitro and in vivo anticancer activity through the supresión of NF- κ B/Akt signaling in prostate cancer cells. *International Journal of Molecular Medicine* 33(2): 317-324.
- Pandurangan N. 2014. A new synthesis for acacetin, chrysoeriol, diosmetin, tricen and other hydroxylated flacones by modified Baker-Venkataraman transformation. *Lett Org Chem* 11(3): 225-229.
- Roland WSU, van Buren L, Gruppen H, Driesse M, Gouka RJ, Smit G, Vincken JP. Bitter taste receptor activation by flavonoids and isoflavonoids: modeled structural requirements for activation of hTAS2R14 and hTAS2R39. *J Agric Food Chem* 61(44): 10454-10466.
- Bhat TA, Nambiar D, Tailor D, Pal A, Agarwal R, Singh RP. 2013. Acacetin inhibits in Vitro and in Vivo angiogenesis and downregulates stat signaling and VEGF expression. *Cancer Prevention Research* 6(10): 1128-1139.
- Ribeiro D, Freitas M, Tome SM, Silva AMS, porto G, Fernandes E. 2013. Modulation of human neutrophils' oxidative burst by flavonoids. 67: 280-292.
- Boussouar A, Barette C, Nadon R, saint-Leger A, Broucqsault N, ottaviani A, Firozhoussen A, Lu Y, Lafanechere L, Gilson E, et al. 2013. Acacetin and chrysins, two polyphenolic compounds, alleviate telomeric position effect in human cells. *Molecular Therapy-Nucleic Acids* 2: E116/1-E116/8.
- Tanigawa N, Hagiwara M, Tada H, Komatsu T, Sugiura S, Kobayashi K, Kato Y, Ishida N, Nishida K, Ninomiya M, et al. 2013. Acacetin inhibits expression of E-selectin on endothelial cells through regulation of the MAP kinase signaling pathway and activation of NF- κ B. *Inmunopharmacology and Immunotoxicology* 35(4): 471-477.
- Miyazawa M, Hisama M. 2003. Antimutagenic activity of flavonoids from Chrysanthemum morifolium. *Biosci Biotechnol Biochem* 67(10): 2091-2099.
- Marin PD, Grayer RJ, Veitch NC, Kite GC, Harborne JB. 2001. Acacetin glycosides as taxonomic markers in Calamintha and Micromeria. *Phytochemistry* 58(6): 943-947.