Product Data Sheet

Product Name: Hirsutenone
Cat. No.: GC64035

Chemical Properties

Cas. No.	41137-87-5		
Formula	C19H20O5	M.Wt	328.36
Solubility		Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	Hirsutenone		

Background

Hirsutenone is an active botanical diarylheptanoid present in Alnus species and exhibits many biological activities, including anti-inflammatory, anti-tumor promoting and anti-atopic dermatitis effects. Hirsutenone attenuates adipogenesis by binding directly to PI3K and ERK1 in a non-ATP competitive manner. Hirsutenone can be used for the study of obesity[1].

Hirsutenone (0-100 μM; 48 hours) inhibits adipogenesis in 3T3-L1 preadipocytes and exhibits non-toxicity at 20-100 μM[1].Hirsutenone (0-100 μM; 48 hours) attenuates MDI-induced lipid accumulation in 3T3-L1 preadipocytes in a dose-dependent manner. In particular, HST at 40 and 80 μM significantly reduces MDI-induced adipogenesis in 3T3-L1 preadipocytes[1].Hirsutenone (0-100 μM; 48 hours) reduces the protein expression levels of PPARg, C/EBPa, and FAS in a dose-dependent manner in 3T3-L1 preadipocytes[1].Hirsutenone (80 μM; 20-24 hours) suppresses the cell cycle entry to S and G2/M phases occurrs at 20 hours when compares with at 20 hours. At 24 h, more cells are arrested in G1 phase (53% of total cells) when compares with the MDI-induced group which contains the majority of cells (56% of total cells) in G2/M phase[1].

[1]. Lai Yee Cheong, et al. Hirsutenone Directly Targets PI3K and ERK to Inhibit Adipogenesis in 3T3-L1 Preadipocytes.J Cell Biochem

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA

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