

Product Data Sheet

Product Name: α -Bisabolol

Cat. No.: GC35305

Chemical Properties

Cas. No. 515-69-5

SMILES C/C(C)=C\CC[C@@](O)([C@@H]1CCC(C)=CC1)C

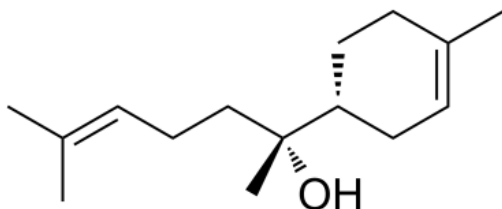
Formula $C_{15}H_{26}O$ M.Wt 222.37

Solubility DMF: 10 mg/ml, DMSO: 10 mg/ml, Ethanol: 5 mg/ml Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C 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



Caution: Product has not been fully validated for medical applications. For research use only.

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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Background

alpha-Bisabolol is a nontoxic sesquiterpene alcohol present in natural essential oil, with anticancer activity. alpha-Bisabolol exerts selective anticancer effect on A549 NSCLC cells (IC₅₀=15 µM) via induction of cell cycle arrest, mitochondrial apoptosis and inhibition of PI3K/Akt signalling pathways. alpha-Bisabolol also strongly induces apoptosis in glioma cells[1][2].

[1]. Wu S, et al. Anticancer effects of α-Bisabolol in human non-small cell lung carcinoma cells are mediated via apoptosis induction, cell cycle arrest, inhibition of cell migration and invasion and upregulation of P13K/AKT signalling pathway. J BUON. 2018 Sep-Oct;23(5):1407-1412. [2]. Cavalieri E, et al. alpha-Bisabolol, a nontoxic natural compound, strongly induces apoptosis in glioma cells. Biochem Biophys Res Commun. 2004 Mar 12;315(3):589-94.

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