

Product Data Sheet

Product Name: β -Epoxytosterol

Cat. No.: GC81826

Chemical Properties

Cas. No. 20835-90-9

Formula $C_{29}H_{50}O_2$

M.Wt 430.72

Solubility DMSO: 3.33 mg/mL (7.73 mM; ultrasonic and warming and heat to 60°C)

Storage Store at -20°C, sealed storage, away from moisture and light

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



Background

β -Epoxytosterol is an Estrogen receptor α agonist. β -Epoxytosterol accumulates in the plasma, aorta, liver, kidney and heart of hamsters fed with diets containing phytosterol oxidation products. β -Epoxytosterol can be used in the research of liver cancer [1] [2].

In Vitro, β -Epoxytosterol (10 μ M) induces luciferase activity, a marker of estrogen receptor α activation, in estrogen receptor α -transfected HeLa cells^[1]. β -Epoxytosterol (120 μ M; 24 h) reduces

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

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the viability of HepG2 cells to 73%^[2].

References:

[1]. Ryan E, et al. Phytosterol oxidation products: their formation, occurrence, and biological effects[J]. Food Reviews International, 2009, 25(2): 157-174.

[2]. Takayasu BS, et al. Biological effects of an oxyphytosterol generated by β -Sitosterol ozonization. Archives of biochemistry and biophysics. 2020 Dec 15;696:108654.

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