Product Data Sheet

Product Name: Kauran-16,17-diol
Cat. No.: GC60962

Chemical Properties

Cas. No.	16836-31-0		
SMILES	C[C@]1(CCC2)[C@@]3([H])[C@](C[C@H]4CC3)(CC[C@]1([H])C2(C)C)C[C@]4(O)CO		
Formula	$C_{20}H_{34}O_2$	M.Wt	306.48
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	Kauran-16,17-diol		

Background

Kauran-16,17-diol (ent-Kauran-16β,17-diol), a natural diterpene, posseses anti-tumor and inducing-apoptosis activity, with a IC50 of 17 μM on inhibiting NO production in LPS-stimulated RAW 264.7 macrophages[1][2].

Kauran-16,17-diol (ent-Kauran-16β,17-diol) down-regulates Bcl-2 by disruption of the Ap-2α/Rb transcription activating complex and induces E2F1 up-regulation in MCF-7 cells[1].

[1]. Alvaro Morales, et al. The natural diterpene ent-16β-17α-dihydroxykaurane down-regulates Bcl-2 by disruption of the Ap-2α/Rb transcription activating complex and induces E2F1 up-regulation in MCF-7 cells. Apoptosis. 2011 Dec;16(12):1245-52. [2]. Nguyen Xuan Nhiem, et al. New ent-kauranes from the fruits of Annona glabra and their inhibitory nitric oxide production in LPS-stimulated RAW264.7 macrophages. Bioorg Med Chem Lett. 2015 Jan 15;25(2):254-8.

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