

Product Data Sheet

Product Name: Isolongifolene

Cat. No.: GC60949

Chemical Properties

Cas. No. 1135-66-6

SMILES CC1(C)[C@]23CC[C@](C3)([H])C(C)(C)C2=CCC1

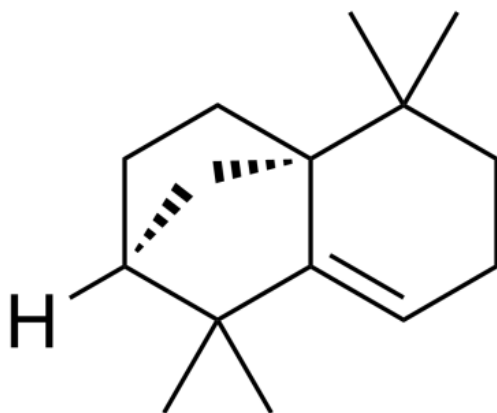
Formula $C_{15}H_{24}$ M.Wt 204.35

Solubility DMSO: 10 mg/mL (48.94 mM);
Water: < 0.1 mg/mL (insoluble) 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



Background

Isolongifolene ((-)-Isolongifolene) is a tricyclic sesquiterpene isolated from *Murraya koenigii*. Isolongifolene attenuates Rotenone-induced oxidative stress, mitochondrial dysfunction and apoptosis through the regulation of P13K/AKT/GSK-3 β signaling pathways. Isolongifolene has antioxidant, anti-inflammatory, anticancer and neuroprotective properties[1].

Isolongifolene (0-50 μ M; 26 hours; SH-SY5Y neuroblastoma cells) treatment significantly alleviates

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

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Rotenone-induced cytotoxicity in SH-SY5Y cells in a dose-dependent manner[1]. Isolongifolene (10 μ M; 26 hours; SH-SY5Y neuroblastoma cells) treatment attenuates Rotenone-induced apoptosis in SH-SY5Y cells[1]. Isolongifolene (10 μ M; 26 hours; SH-SY5Y neuroblastoma cells) treatment attenuates Rotenone induced toxicity by down-regulating Bax, caspases-3, 6, 8 and 9 expression and up-regulating of Bcl-2 expression. Furthermore regulation of p-P13K, p-AKT and p-GSK-3 β expression by Isolongifolene[1]. Cell Viability Assay[1] Cell Line: SH-SY5Y neuroblastoma cells

[1]. Balakrishnan R, et al. Isolongifolene attenuates rotenone-induced mitochondrial dysfunction, oxidative stress and apoptosis. Front Biosci (Schol Ed). 2018 Jan 1;10:248-261.

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