
Product Data Sheet

Product Name: Umbellulone

Cat. No.: GC65211

Chemical Properties

Cas. No. 546-78-1

Formula C₁₀H₁₄O

M.Wt 150.22

Solubility DMSO : 250 mg/mL (1664.23 mM; Need ultrasonic) 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

Umbellulone is an active constituent of the leaves of *Umbellularia californica*. Umbellulone stimulates the TRPA1 channel in a subset of peptidergic, nociceptive neurons, activating the trigeminovascular system via this mechanism[1].

Umbellulone, from μ M to sub-mM concentrations, selectively stimulates transient receptor potential ankyrin 1-expressing HEK293 cells[1].

Umbellulone (50-250 nM/5ul) causes an acute nociceptive response in a dose-dependent manner in *Trpa1*^{+/+} mice[1]. Umbellulone (150 μ g/kg; intravenous or intranasal) do not affect systemic blood pressure[1]. Umbellulone (30-150 μ g/kg; i.v.) increases meningeal blood flow in a dose-dependent manner[1].

[1]. Nassini R, et al. The 'headache tree' via umbellulone and TRPA1 activates the trigeminovascular system. *Brain*. 2012 Feb;135(Pt 2):376-90.

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

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