

## Product Data Sheet

Product Name: Isoprocurcumenol

Cat. No.: GC70377

### Chemical Properties

Cas. No. 102130-90-5

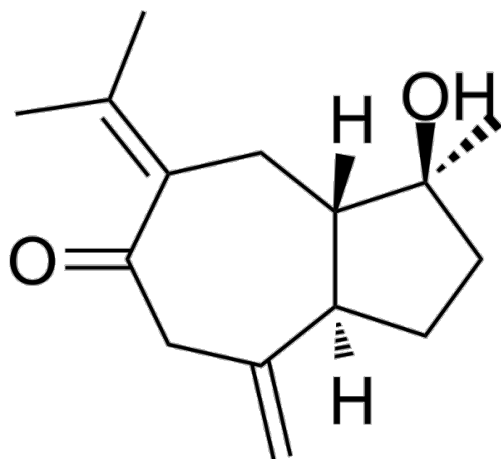
Formula  $C_{15}H_{22}O_2$  M.Wt 234.33

Solubility DMSO : 2.4 mg/mL (10.24 mM; Need Storage ultrasonic and warming; Hygroscopic DMSO has a significant impact on the solubility of product, please use newly opened DMSO)

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

Isoprocurcumenol is a guaiane type sesquiterpene, that can be isolated from *Curcuma comosa*. Isoprocurcumenol can activate EGFR signaling. Isoprocurcumenol increases the phosphorylation of ERK and AKT. Isoprocurcumenol promotes the proliferation of keratinocytes.

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

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Isoprocurcumenol (10  $\mu$ M, 0-1 h) increases the phosphorylation of ERK and AKT [3].

Isoprocurcumenol (0-200  $\mu$ M, 24 or 48 h) induces the proliferation of keratinocytes HaCaT cells [3].

Isoprocurcumenol (1  $\mu$ M, 1 h) increases the expression of genes related to cell growth and proliferation, such as c-fos, c-jun, c-myc, and egr-1, through activation of the EGFR signaling pathway[3].

Isoprocurcumenol induces cell recovery and wound healing [3].

### References:

[1]. Qu Y, et al. Sesquiterpenes from *Curcuma comosa*. J Nat Med. 2009 Jan;63(1):102-4.

[2]. Anuchapreeda S, et al. Cytotoxicity and inhibition of leukemic cell proliferation by sesquiterpenes from rhizomes of Mah-Lueang (*Curcuma cf. viridiflora* Roxb.). Bioorg Med Chem Lett. 2018 Feb 1;28(3):410-414.

[3]. Kwon PK, et al. Isoprocurcumenol Supports Keratinocyte Growth and Survival through Epidermal Growth Factor Receptor Activation. Int J Mol Sci. 2021 Nov 22;22(22):12579.

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