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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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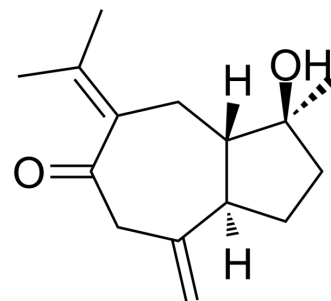
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Isoprocurcumenol

Cat. No.:	HY-113599									
CAS No.:	102130-90-5									
Molecular Formula:	C ₁₅ H ₂₂ O ₂									
Molecular Weight:	234.33									
Target:	EGFR; ERK; Akt									
Pathway:	JAK/STAT Signaling; Protein Tyrosine Kinase/RTK; MAPK/ERK Pathway; Stem Cell/Wnt; PI3K/Akt/mTOR									
Storage:	<table border="0"> <tr> <td>Powder</td> <td>-20°C</td> <td>3 years</td> </tr> <tr> <td>In solvent</td> <td>-80°C</td> <td>6 months</td> </tr> <tr> <td></td> <td>-20°C</td> <td>1 month</td> </tr> </table>	Powder	-20°C	3 years	In solvent	-80°C	6 months		-20°C	1 month
Powder	-20°C	3 years								
In solvent	-80°C	6 months								
	-20°C	1 month								



SOLVENT & SOLUBILITY

In Vitro

DMSO : 2.4 mg/mL (10.24 mM; Need ultrasonic and warming)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	4.2675 mL	21.3374 mL	42.6749 mL
	5 mM	0.8535 mL	4.2675 mL	8.5350 mL
	10 mM	0.4267 mL	2.1337 mL	4.2675 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Isoprocurcumenol is a guaianolide 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^{[1][2][3]}.

IC₅₀ & Target

ERK	Akt
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In Vitro

Isoprocurcumenol (10 μM, 0-1 h) increases the phosphorylation of ERK and AKT^[3].
 Isoprocurcumenol (0-200 μM, 24 or 48 h) induces the proliferation of keratinocytes HaCaT cells^[3].
 Isoprocurcumenol (1 μM, 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].
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.
 Western Blot Analysis^[3]

Cell Line:	HaCaT cells (human keratinocyte cell)
Concentration:	10 μ M
Incubation Time:	10, 30, or 60 min
Result:	Induced the phosphorylation of ERK and AKT after 10 min and this was sustained for 1 h.

Cell Proliferation Assay^[3]

Cell Line:	HaCaT cells (human keratinocyte cell)
Concentration:	0 nM, 1 nM, 10 nM, 100 nM, 1 μ M, 10 μ M, 25 μ M, 50 μ M, 100 μ M, or 200 μ M
Incubation Time:	24 or 48 h
Result:	Showed a significant increase in the proliferation of cells at most of the Isoprocurcumenol concentrations, starting at 10 nM.

RT-PCR^[3]

Cell Line:	HaCaT cells (human keratinocyte cell)
Concentration:	1 μ M
Incubation Time:	1 h
Result:	Increased the expression of genes related to cell growth and proliferation, such as c-myc, c-jun, c-fos, and egr-1.

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.

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

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