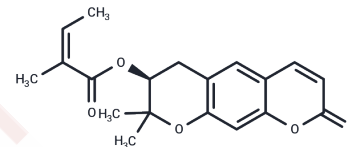


## Decursinol angelate

## Chemical Properties

CAS No. :	130848-06-5
Formula:	C <sub>19</sub> H <sub>20</sub> O <sub>5</sub>
Molecular Weight:	328.36
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Decursinol angelate has anti-tumor, anti-inflammatory, anti-oxidant, and hepatoprotective activities, it inhibits VEGF-induced angiogenesis via suppression of the VEGFR-2-signaling pathway; it also suppresses invasion and inflammatory activation of cancer cells through modulation of PI3K/AKT, ERK and NF-kappaB, its anti-inflammatory activity may contribute to its anti-cancer activity.
Targets(IC50)	ERK,JNK,PKC,VEGFR
In vitro	Here, we show that treatment with these compounds improves wound healing by HaCaT human keratinocytes. Wound healing was increased by treatment with up to a threshold concentration of decursin, Decursinol angelate, a mixture of both, and a nano-emulsion of these compounds, but inhibited by treatment with higher concentrations. Immunoblotting and fluorescence imaging of cells expressing an epidermal growth factor receptor (EGFR) biosensor demonstrated that these compounds did not stimulate wound healing by inducing EGFR phosphorylation. Rather, transcriptional analysis revealed that decursin and Decursinol angelate improved wound healing by upregulating the expression of genes encoding extracellular matrix remodeling proteins, inflammatory cytokines, and growth factors.

## Solubility Information

Solubility	DMSO: 65 mg/mL (197.95 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	3.0454 mL	15.2272 mL	30.4544 mL
5 mM	0.6091 mL	3.0454 mL	6.0909 mL
10 mM	0.3045 mL	1.5227 mL	3.0454 mL
50 mM	0.0609 mL	0.3045 mL	0.6091 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Decursin and decursinol angelate improve wound healing by upregulating transcription of genes encoding extracellular matrix remodeling proteins, inflammatory cytokines, and growth factors in human keratinocytes. *Biochem Biophys Res Commun.* 2018 May 23;499(4):979-984.

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