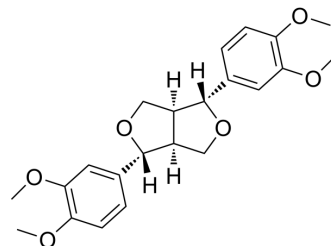


Eudesmin

Cat. No.:	HY-N2357
CAS No.:	526-06-7
Molecular Formula:	C ₂₂ H ₂₆ O ₆
Molecular Weight:	386.44
Target:	Ribosomal S6 Kinase (RSK)
Pathway:	MAPK/ERK Pathway
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (258.77 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		2.5877 mL	12.9386 mL	25.8772 mL
		5 mM		0.5175 mL	2.5877 mL	5.1754 mL
10 mM		0.2588 mL	1.2939 mL	2.5877 mL		
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (6.47 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.47 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.47 mM); Clear solution 					

BIOLOGICAL ACTIVITY

Description	Eudesmin ((-)-Eudesmin) impairs adipogenic differentiation via inhibition of S6K1 signaling pathway. Eudesmin possesses diverse therapeutic effects, including anti-tumor, anti-inflammatory, and anti-bacterial activities ^[1] .
IC₅₀ & Target	p70S6K
In Vitro	Treatment of mesenchymal stem cells (MSCs) with Eudesmin (20, 40, and 80 μM) disturbs adipogenesis via suppression of S6K1 signaling pathway. Eudesmin treatment inhibits activation and nuclear translocation of S6K1. S6K1-mediated phosphorylation of H2B at serine 36 (H2BS36p) is reduced upon Eudesmin treatment ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Ki Hong Nam, et al. Eudesmin Impairs Adipogenic Differentiation via Inhibition of S6K1 Signaling Pathway. *Biochem Biophys Res Commun*. 2018 Nov 10;505(4):1148-1153.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA