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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Toddaculin

Cat. No.: HY-N9359

CAS No.: 4335-12-0

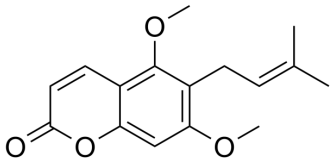
Molecular Formula: $C_{16}H_{18}O_4$

Molecular Weight: 274.31

Target: Apoptosis

Pathway: Apoptosis

Storage: 4°C, sealed storage, away from moisture and light
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (182.28 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.6455 mL	18.2276 mL	36.4551 mL
	5 mM	0.7291 mL	3.6455 mL	7.2910 mL
	10 mM	0.3646 mL	1.8228 mL	3.6455 mL

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

BIOLOGICAL ACTIVITY

Description

Toddaculin is a natural coumarin that can induce differentiation and apoptosis in leukemic cells. Toddaculin suppresses excess osteoclast activity and enhances osteoblast differentiation and mineralization. Toddaculin also exhibits anti-inflammatory activity[1][2][3].

In Vitro

Toddaculin (5-250 μM; 24-72 h) shows anti-proliferative activity in U-937 cells, with an IC_{50} of 51.38 μM[1].
Toddaculin (25-250 μM; 24-48 h) induces partial differentiation in U-937 leukemic cells[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Vázquez R, et, al. Toddaculin, a natural coumarin from Toddalia asiatica, induces differentiation and apoptosis in U-937 leukemic cells. Phytomedicine. 2012 Jun 15;19(8-9):737-46.

[2]. Watanabe A, et, al. Toddaculin, Isolated from of Toddalia asiatica (L.) Lam., Inhibited Osteoclastogenesis in RAW 264 Cells and Enhanced Osteoblastogenesis in MC3T3-E1 Cells. PLoS One. 2015 May 18;10(5):e0127158.

[3]. Kumagai M, et, al. Evaluation of Aculeatin and Toddaculin Isolated from Toddalia asiatica as Anti-inflammatory Agents in LPS-Stimulated RAW264 Macrophages. Biol Pharm Bull. 2018;41(1):132-137.

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