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Produktinformation

- Forschungsprodukte & Biochemikalien
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- 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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Irigenin

Cat. No.: HY-N2587

CAS No.: 548-76-5

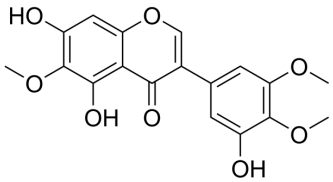
Molecular Formula: $C_{18}H_{16}O_8$

Molecular Weight: 360.31

Target: Integrin; Apoptosis

Pathway: Cytoskeleton; Apoptosis

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 (277.54 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.7754 mL	13.8769 mL	27.7539 mL
	5 mM	0.5551 mL	2.7754 mL	5.5508 mL
	10 mM	0.2775 mL	1.3877 mL	2.7754 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (6.94 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (6.94 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (6.94 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Irigenin is a is a lead compound, and mediates its anti-metastatic effect by specifically and selectively blocking α9β1 and α4β1 integrins binding sites on C-C loop of Extra Domain A (EDA). Irigenin shows anti-cancer properties. It sensitizes TRAIL-induced apoptosis via enhancing pro-apoptotic molecules in gastric cancer cells[1].

In Vitro

Irigenin specifically targets α9β1 and α4β1 integrin binding sites on Extra Domain A (EDA) comprising LEU46, PHE47, PRO48, GLU58, LEU59 and GLN60 in its C-C loop. Irigenin binds to the C-C loop of EDA, thereby blocking its interaction with integrins on the cell surface and thus abrogating subsequent Epithelial-Mesenchymal transition[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Amin A, et al. Irigenin, a novel lead from Western Himalayan chemiome inhibits Fibronectin-Extra Domain A induced metastasis in Lung cancer cells. Sci Rep. 2016 Nov 16;6:37151.

[2]. Xu Y, et al. Irigenin sensitizes TRAIL-induced apoptosis via enhancing pro-apoptotic molecules in gastric cancer cells. Biochem Biophys Res Commun. 2018 Feb 12;496(3):998-1005.

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