Hypocrellin B

Cat. No.: HY-N1453

CAS No.: 123940-54-5

Molecular Formula: $C_{30}H_{24}O_9$

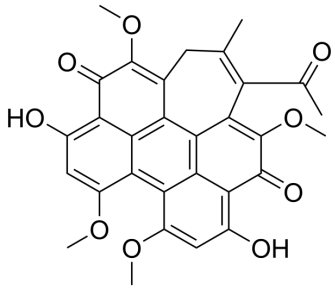
Molecular Weight: 528.51

Target: Apoptosis; Fungal; Parasite

Pathway: Apoptosis; Anti-infection

Storage: 4°C, protect from light

* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 2 mg/mL (3.78 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.8921 mL	9.4606 mL	18.9211 mL
	5 mM	---	---	---
	10 mM	---	---	---

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

BIOLOGICAL ACTIVITY

Description

Hypocrellin B, a pigment isolated from the fungi Hypocrella bambusae and Shiraia bambusicola, is an apoptosis inducer. Hypocrellin B can be used as a photosensitizer for photodynamic therapy of cancer. Hypocrellin B also has antimicrobial and antileishmanial activities[1][2][3].

IC_{50} & Target

Leishmania

In Vitro

Hypocrellin B (2.5 μM, 4 h) induces cell cytotoxicity 24 h after sonodynamic therapy (SDT) in HepG2 cells, and induces induce the early apoptosis[2].

Hypocrellin B shows antifungal and anti-parasite activity against C. albicans and Leishmania donovani respectively (IC_{50}: 5 and 12.7 μg/mL)[3].

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

In Vivo

Hypocrellin B (2 mg/kg, i.v.) inhibits tumor growth in A549 tumor bearing mice, but the anticancer efficacy is less than hypocrellin B loaded nanoparticles[4].

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

CUSTOMER VALIDATION

- Research Square Preprint. 2023 Jun 21.

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REFERENCES

[1]. Chang JE, et al. Hypocrellin B and paclitaxel-encapsulated hyaluronic acid-ceramide nanoparticles for targeted photodynamic therapy in lung cancer. J Photochem Photobiol B. 2016 May;158:113-21.

[2]. Miller GG, et al. Preclinical assessment of hypocrellin B and hypocrellin B derivatives as sensitizers for photodynamic therapy of cancer: progress update. Photochem Photobiol. 1997 Apr;65(4):714-22.

[3]. Wang X, et al. Hypocrellin B-mediated sonodynamic action induces apoptosis of hepatocellular carcinoma cells. Ultrasonics. 2012 Apr;52(4):543-6.

[4]. Ma G, et al. Antimicrobial and antileishmanial activities of hypocrellins A and B. Antimicrob Agents Chemother. 2004 Nov;48(11):4450-2.

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