Cucurbitacin IIa

Cat. No.: HY-N1988

CAS No.: 58546-34-2

Molecular Formula: $C_{32}H_{50}O_8$

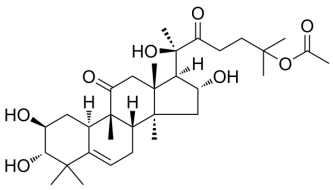
Molecular Weight: 562.73

Target: Survivin; Apoptosis

Pathway: 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 : 25 mg/mL (44.43 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	1.7771 mL	8.8853 mL	17.7705 mL
	5 mM	0.3554 mL	1.7771 mL	3.5541 mL
	10 mM	0.1777 mL	0.8885 mL	1.7771 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: ≥ 1 mg/mL (1.78 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 1 mg/mL (1.78 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 1 mg/mL (1.78 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Cucurbitacin IIa is a triterpene isolated from Hemsleya amalils Diels, induces apoptosis of cancer cells, reduces expression of survivin, reduces phospho-Histone H3 and increases cleaved PARP in cancer cells[1].

REFERENCES

[1]. Boykin C, et al. Cucurbitacin IIa: a novel class of anti-cancer drug inducing non-reversible actin aggregation and inhibiting survivin independent of JAK2/STAT3 phosphorylation. Br J Cancer. 2011 Mar 1;104(5):781-9.

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

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