Cucurbitacin D

Cat. No.: HY-N1986

CAS No.: 3877-86-9

Molecular Formula: $C_{30}H_{44}O_7$

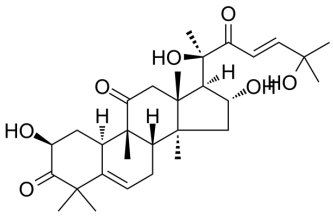
Molecular Weight: 516.67

Target: HSP

Pathway: Cell Cycle/DNA Damage; Metabolic Enzyme/Protease

Storage: 4°C, protect from light

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



SOLVENT & SOLUBILITY

In Vitro

DMSO : 110 mg/mL (212.90 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.9355 mL	9.6774 mL	19.3547 mL
	5 mM	0.3871 mL	1.9355 mL	3.8709 mL
	10 mM	0.1935 mL	0.9677 mL	1.9355 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 2.75 mg/mL (5.32 mM); Suspended solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.75 mg/mL (5.32 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Cucurbitacin D is an active component in Trichosanthes kirilowii, disrupts interactions between Hsp90 and two co-chaperones, Cdc37 and p23. Cucurbitacin D prevents Hsp90 client (Her2, Raf, Cdk6, pAkt) maturation without induction of the heat shock response. Anti-cancer activity[1].

IC_{50} & Target

HSP90

REFERENCES

[1]. Hall JA, et al. Cucurbitacin D Is a Disruptor of the HSP90 Chaperone Machinery. J Nat Prod. 2015 Apr 24;78(4):873-9.

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

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