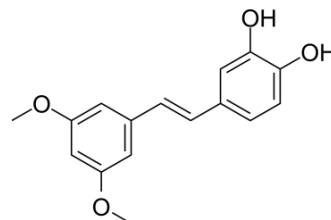


3'-Hydroxypterostilbene

Cat. No.:	HY-N6002
CAS No.:	475231-21-1
Molecular Formula:	C ₁₆ H ₁₆ O ₄
Molecular Weight:	272.3
Target:	Apoptosis; Autophagy
Pathway:	Apoptosis; Autophagy
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 260 mg/mL (954.83 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	3.6724 mL	18.3621 mL	36.7242 mL
		5 mM	0.7345 mL	3.6724 mL	7.3448 mL
10 mM		0.3672 mL	1.8362 mL	3.6724 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: ≥ 2.17 mg/mL (7.97 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.17 mg/mL (7.97 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.17 mg/mL (7.97 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	3'-Hydroxypterostilbene, a natural pterostilbene analogue, effectively inhibits the growth of human colon cancer cells (IC ₅₀ s of 9.0, 40.2, and 70.9 μM for COLO 205, HCT-116, and HT-29 cells, respectively) by inducing apoptosis and autophagy . 3'-Hydroxypterostilbene inhibits the PI3K/Akt/mTOR/p70S6K, and p38MAPK pathways and activates the ERK1/2, JNK1/2 MAPK pathways ^[1] .
IC ₅₀ & Target	Apoptosis ^[1] Autophagy ^[1]

REFERENCES

[1]. Cheng TC, et al. Potent anti-cancer effect of 3'-hydroxypterostilbene in human colon xenograft tumors. PLoS One. 2014 Nov 12;9(11):e111814.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA