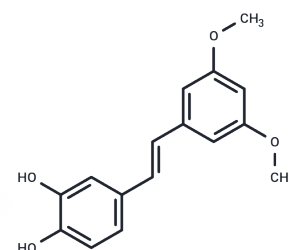


## 3'-Hydroxypterostilbene

## Chemical Properties

CAS No. :	475231-21-1
Formula:	C <sub>16</sub> H <sub>16</sub> O <sub>4</sub>
Molecular Weight:	272.3
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

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

## Solubility Information

Solubility	DMSO: 55 mg/mL (201.98 mM), Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (7.34 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	1mg	5mg	10mg
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
50 mM	0.0734 mL	0.3672 mL	0.7345 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Cheng TC, et al. Potent anti-cancer effect of 3'-hydroxypterostilbene in human colon xenograft tumors. PLoS One. 2014 Nov 12;9(11):e1111814.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481