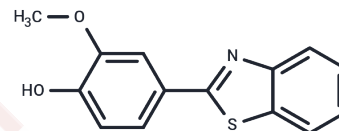


YL-109

## Chemical Properties

CAS No. : 36341-25-0  
 Formula: C<sub>14</sub>H<sub>11</sub>NO<sub>2</sub>S  
 Molecular Weight: 257.31  
 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	YL-109, a novel anticancer agent, can inhibit breast Y cell growth and invasiveness in vitro and in vivo.
Targets(IC50)	AhR, Aryl Hydrocarbon Receptor

## Solubility Information

Solubility	DMSO: 55 mg/mL (213.75 mM), Sonication is recommended. H <sub>2</sub> O: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2.5 mg/mL (9.72 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

	1mg	5mg	10mg
1 mM	3.8864 mL	19.4318 mL	38.8636 mL
5 mM	0.7773 mL	3.8864 mL	7.7727 mL
10 mM	0.3886 mL	1.9432 mL	3.8864 mL
50 mM	0.0777 mL	0.3886 mL	0.7773 mL

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

Hiyoshi H, et al. Sci Rep. 2014 Nov 18;4:7095.

Recombinant  $\alpha$ -Toxin BmK-M9 Inhibits Breast Cancer Progression by Regulating  $\beta$ -Catenin In Vivo

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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