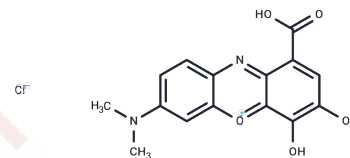


## Galloyanine

## Chemical Properties

CAS No. :	1562-85-2
Formula:	C <sub>15</sub> H <sub>13</sub> ClN <sub>2</sub> O <sub>5</sub>
Molecular Weight:	336.73
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years   In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



## Biological Description

Description	Galloyanine is a small molecule blue dye used to stain nuclei. It is known to inhibit Dickkopf-1 (Dkk1), an antagonist of the Wnt pathway. Galloyanine can disrupt the interaction of Dkk1 with its receptor LRP5/6 (IC <sub>50</sub> = 3 μM), thereby activating Wnt/β-catenin signaling. Modulation of the Dkk1-LRP5/6 interaction via galloyanine has been shown to inhibit prostaglandin J <sub>2</sub> -induced tau phosphorylation at serine396 in primary cortical neurons in vitro.
Targets(IC <sub>50</sub> )	Others,Wnt/beta-catenin

## Solubility Information

Solubility	DMSO: 74 mg/mL (219.76 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: 1 mg/mL (2.97 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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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	2.9697 mL	14.8487 mL	29.6974 mL
5 mM	0.5939 mL	2.9697 mL	5.9395 mL
10 mM	0.297 mL	1.4849 mL	2.9697 mL
50 mM	0.0594 mL	0.297 mL	0.5939 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.

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