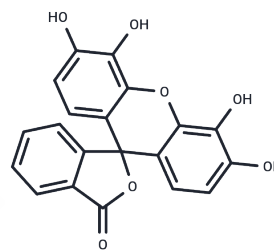


## Gallein

## Chemical Properties

CAS No. :	2103-64-2
Formula:	C <sub>20</sub> H <sub>12</sub> O <sub>7</sub>
Molecular Weight:	364.31
Storage:	Keep away from moisture Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	Gallein (Mordant violet 25) is a small molecule inhibitor of Gβγ activity.
Targets(IC50)	Others,PI3K

## Solubility Information

Solubility	DMSO: 27.3 mg/mL (74.94 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 (5.49 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	2.7449 mL	13.7246 mL	27.4492 mL
5 mM	0.549 mL	2.7449 mL	5.4898 mL
10 mM	0.2745 mL	1.3725 mL	2.7449 mL
50 mM	0.0549 mL	0.2745 mL	0.549 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

White SM, et al. Mol Pharmacol. 2014 Oct;86(4):369-77.

Tan Z, Lei Z, Yan Z, et al. Exploiting D2 receptor  $\beta$ -arrestin2-biased signalling to suppress tumour growth of pituitary adenomas. British Journal of Pharmacology. 2021

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