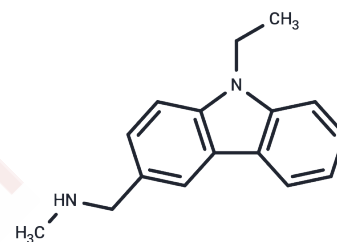


PhiKan 083

Chemical Properties

CAS No. :	880813-36-5
Formula:	C ₁₆ H ₁₈ N ₂
Molecular Weight:	238.33
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	PhiKan 083, a carbazole derivative, exhibits potential as an eco-friendly dye with applications in the development of organic photovoltaic cells (OPVs).
Targets(IC50)	Mdm2,p53,MDM-2/p53
In vitro	PhiKan 083 reduces the cell viability of engineered variants of Ln229 cells, in combination with NSC 123127 (1 μM) enhances the pro-apoptotic activity in all variants of Ln229 cells (p53wt, p53Y220C, p53G245S, p53R282W)[1].

Solubility Information

Solubility	Ethanol: 100 mg/mL (419.59 mM),Sonication is recommended. DMSO: 115 mg/mL (482.52 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: 4 mg/mL (16.78 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	4.1959 mL	20.9793 mL	41.9586 mL
5 mM	0.8392 mL	4.1959 mL	8.3917 mL
10 mM	0.4196 mL	2.0979 mL	4.1959 mL
50 mM	0.0839 mL	0.4196 mL	0.8392 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

Paulmurugan R, et al. A protein folding molecular imaging biosensor monitors the effects of drugs that restore mutant p53 structure and its downstream function in glioblastoma cells. *Oncotarget*. 2018 Apr 20;9(30):21495-21511.

Boeckler FM, et al. Targeted rescue of a destabilized mutant of p53 by an in silico screened drug. *Proc Natl Acad Sci U S A*. 2008 Jul 29;105(30):10360-5.

Rauf SM, et al. Effect of Y220C mutation on p53 and its rescue mechanism: a computer chemistry approach. *Protein J*. 2013 Jan;32(1):68-74.

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