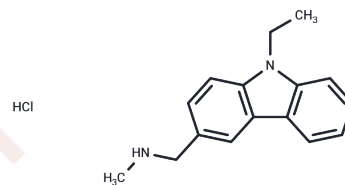


## PhiKan 083 hydrochloride

## Chemical Properties

CAS No. :	1050480-30-2
Formula:	C <sub>16</sub> H <sub>19</sub> ClN <sub>2</sub>
Molecular Weight:	274.79
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 hydrochloride, a carbazole derivative, binds to the surface cavity and stabilizes Y220C (Kd: 167 μM) with a relative binding affinity (Kd) of 150 μM in Ln229 cells.
Targets(IC50)	Others,MDM-2/p53
In vitro	PhiKan 083 slows down its thermal denaturation rate. PhiKan 083 shows a relative binding affinity (Kd) of 150 μM for p53Y220C in Ln229 cells. PhiKan 083 (100 μM) in combination with NSC 123127 (1 μM) increases the pro-apoptotic activity in all variants of Ln229 cells (p53wt, p53Y220C, p53G245S, p53R282W). PhiKan 083 (125 μM, 48 hours) decreases the cell viability of engineered variants of Ln229 cells [2][3].

## Solubility Information

Solubility	H <sub>2</sub> O: 2 mg/mL (7.28 mM),Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.6391 mL	18.1957 mL	36.3914 mL
5 mM	0.7278 mL	3.6391 mL	7.2783 mL
10 mM	0.3639 mL	1.8196 mL	3.6391 mL
50 mM	0.0728 mL	0.3639 mL	0.7278 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

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.

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.

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