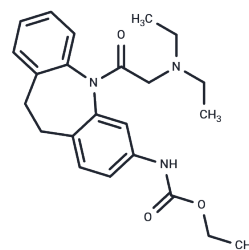


## CINPA1

## Chemical Properties

CAS No. :	102636-74-8
Formula:	C <sub>23</sub> H <sub>29</sub> N <sub>3</sub> O <sub>3</sub>
Molecular Weight:	395.49
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	CINPA1 (CINPA 1) is a selective inhibitor of constitutive androstane receptor (CAR) with an IC <sub>50</sub> of 70 nM for CAR-mediated transcription. CINPA1 can be used in studies about CAR function.
Targets(IC <sub>50</sub> )	Others
In vitro	CINPA1 is a specific xenobiotic receptor inhibitor and has no cytotoxic effects up to 30 μM. CINPA1 inhibits CAR-mediated gene expression in primary human hepatocytes, where CAR is endogenously expressed and it efficiently inhibits CAR-LBD interaction with the coactivator peptide. CINPA1 (1 μM) inhibits CAR-mediated transactivation without activating the pregnane X receptor (PXR) in HepG2 cells. In mammalian two-hybrid assays, CINPA1 increases the corepressor and reduces coactivator interaction with the CAR ligand-binding domain. In chromatin immunoprecipitation assays, CINPA1 disrupts CAR binding to the promoter regions of target genes[1].

## Solubility Information

Solubility	DMSO: 200 mg/mL (505.7 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: 5 mg/mL (12.64 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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	1mg	5mg	10mg
1 mM	2.5285 mL	12.6425 mL	25.2851 mL
5 mM	0.5057 mL	2.5285 mL	5.057 mL
10 mM	0.2529 mL	1.2643 mL	2.5285 mL
50 mM	0.0506 mL	0.2529 mL	0.5057 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.

### Reference

Cherian MT, et al. CINPA1 is an inhibitor of constitutive androstane receptor that does not activate pregnane X receptor. Mol Pharmacol. 2015 May;87(5):878-89.

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