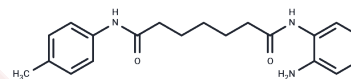


## Pimelic diphenylamide 106

## Chemical Properties

CAS No. :	937039-45-7
Formula:	C <sub>20</sub> H <sub>25</sub> N <sub>3</sub> O <sub>2</sub>
Molecular Weight:	339.43
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	Pimelic diphenylamide 106 (RGFA-8) is a slow, tight-binding inhibitor of class I HDAC (with IC <sub>50</sub> values of 150 nM, 760 nM and 370 nM for HDAC 1, 2, and 3, respectively), showing no activity against class II HDACs.
Targets(IC <sub>50</sub> )	HDAC, Monoamine Transporter

## Solubility Information

Solubility	DMSO: 55 mg/mL (162.04 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 (2.95 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	2.9461 mL	14.7306 mL	29.4612 mL
5 mM	0.5892 mL	2.9461 mL	5.8922 mL
10 mM	0.2946 mL	1.4731 mL	2.9461 mL
50 mM	0.0589 mL	0.2946 mL	0.5892 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

Chou CJ, et al. J Biol Chem. 2008 Dec 19;283(51):35402-9.

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