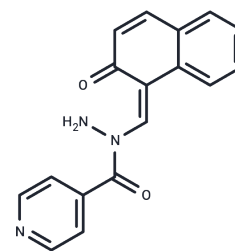


AS8351

## Chemical Properties

CAS No. :	796-42-9
Formula:	C <sub>17</sub> H <sub>13</sub> N <sub>3</sub> O <sub>2</sub>
Molecular Weight:	291.3
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	AS8351 (NSC51355) is a histone demethylase inhibitor. It has been used in combination with CHIR99021, A 83-01, BIX01294, SC-1, Y-27632, OAC2, SU 16f, and JNJ-10198409 to induce reprogramming of human fetal lung fibroblasts into functional cardiomyocytes.
Targets(IC50)	Histone Demethylase

## Solubility Information

Solubility	DMSO: 37.59 mg/mL (129.04 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: 2 mg/mL (6.87 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	3.4329 mL	17.1644 mL	34.3289 mL
5 mM	0.6866 mL	3.4329 mL	6.8658 mL
10 mM	0.3433 mL	1.7164 mL	3.4329 mL
50 mM	0.0687 mL	0.3433 mL	0.6866 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

Cao, N.,Huang, et al. Conversion of human fibroblasts into functional cardiomyocytes by small molecules. Science 352(6290), 1216-1220 (2016).

Chen B, Chen H, Lu S, et al. KDM5B promotes tumorigenesis of Ewing sarcoma via FBXW7/CCNE1 axis. Cell Death & Disease. 2022, 13(4): 1-13

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