AS8351

Cat. No.: HY-100744

CAS No.: 796-42-9

Molecular Formula: $C_{17}H_{13}N_3O_2$

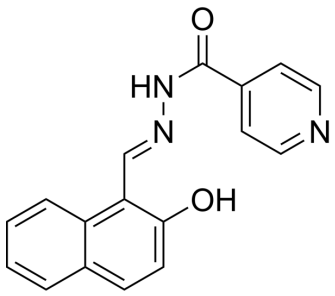
Molecular Weight: 291.3

Target: Histone Demethylase

Pathway: Epigenetics

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	2 years
	-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 150 mg/mL (514.93 mM; Need ultrasonic and warming)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	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

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (8.58 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

AS8351 (NSC51355) is a KDM5B inhibitor, which can induce and sustain active chromatin marks to facilitate the induction of cardiomyocyte-like cells[1].

IC_{50} & Target

KDM5

In Vitro

AS8351 affects epigenetic modifications by competing with α-ketoglutarate (α-KG) for chelating iron [Fe(II)] in certain epigenetic enzymes, such as the JmjC domain-containing histone demethylases (JmjC-KDMs) that require α-KG and iron as co-factors[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Liu K, et al. Chemical Modulation of Cell Fate in Stem Cell Therapeutics and Regenerative Medicine. Cell Chem Biol. 2016 Aug 18;23(8):893-916.

[2]. Cao N, et al. Conversion of human fibroblasts into functional cardiomyocytes by small molecules. Science. 2016 Jun 3;352(6290):1216-20.

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