SIRT2-IN-9

Cat. No.: HY-151519

CAS No.: 522650-91-5

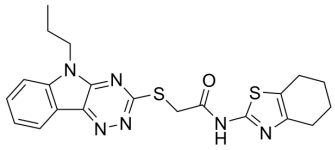
Molecular Formula: $C_{21}H_{22}N_6OS_2$

Molecular Weight: 438.57

Target: Sirtuin

Pathway: Cell Cycle/DNA Damage; Epigenetics

Storage: 4°C, protect from light
* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 4.46 mg/mL (10.17 mM; ultrasonic and warming and heat to 70°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.2801 mL	11.4007 mL	22.8014 mL
	5 mM	0.4560 mL	2.2801 mL	4.5603 mL
	10 mM	0.2280 mL	1.1401 mL	2.2801 mL

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

BIOLOGICAL ACTIVITY

Description

SIRT2-IN-9 (compound 12) is a selective inhibitor of SRIT2 with an IC_{50} value of 1.3 μM. SIRT2-IN-9 inhibits proliferative activity of MCF-7 breast cancer cells. SIRT2-IN-9 can be used for the research of cancer[1].

IC_{50} & Target

SIRT2	SIRT1	SIRT3
1.3 μM (IC_{50})	⊠300 μM (IC_{50})	⊠300 μM (IC_{50})

In Vitro

SIRT2-IN-9 (1-100 μM; 15 min) dose-dependently inhibits SRIT2 with an IC_{50} value of 1.3 μM, and inhibits SRIT1 and SRIT3 with IC_{50}s ⊠300 μM[1].
SIRT2-IN-9 (0-50 μM; 72 h) affects cell viability of MCF-7 cells[1].
SIRT2-IN-9 (0-50 μM; 6 h) affects acetylation of α-tubulin protein[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Proliferation Assay[1]

Cell Line:	MCF-7 breast cancer cell line
Concentration:	0-50 μM

Incubation Time:	72 hours
Result:	Dose-dependently inhibited cell proliferation of MCF-7 breast cancer cells.

Western Blot Analysis[1]

Cell Line:	MCF-7 breast cancer cell line
Concentration:	6.25, 12.5, 25 and 50 μM
Incubation Time:	6 hours
Result:	Dose-dependently increased acetylation of α-tubulin protein.

REFERENCES

[1]. Yang SY, Li LL. The purposes of 5H- [1,2,4] triazine [5,6-b] indole derivatives of 3 substitutions. CN108309982A. 2017.

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