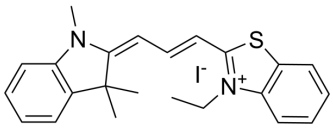
AC-93253

Cat. No.:	HY-118343
CAS No.:	108527-83-9
Molecular Formula:	$C_{23}H_{25}IN_2S$
Molecular Weight:	488.43
Target:	Sirtuin
Pathway:	Cell Cycle/DNA Damage; Epigenetics
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	AC-93253 is a selective, potent SIRT2 inhibitor. AC93253 can inhibit SIRT2 with an IC_{50} value of 6 μM. AC93253 can be used for the research of tumors[1].

IC_{50} & Target	SIRT1	SIRT2	SIRT3
	45.3 μM (IC_{50})	6 μM (IC_{50})	24.6 μM (IC_{50})

In Vitro

AC93253 can inhibit SIRT1, SIRT2 and SIRT3 with IC_{50} values of 45.3 μM, 6 μM and 24.6 μM, respectively[1].

AC-93253 (0, 2, 5, 10 μM; 16 h) significantly enhanced the acetylation of tubulin, p53, and histone H4[1].

AC-93253 exhibits selective cytotoxicity towards four tumor cell lines in a single agent with IC_{50} values ranging from 10 to 100 nM[1].

AC-93253 significantly triggered apoptosis [1].

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

Western Blot Analysis[1]

Cell Line:	NCI-H460 cells, HeLa cells
Concentration:	0, 2, 5, 10 μM
Incubation Time:	16 h
Result:	Increased the acetylation levels of a-tubulin in a dose-dependent manner. Increased the level of histone protein and p53.

REFERENCES

[1]. Zhang, Yingjia et al. Identification of a small molecule SIRT2 inhibitor with selective tumor cytotoxicity. Biochemical and biophysical research communications vol. 386,4 (2009): 729-33.

Caution: Product has not been fully validated for medical applications. For research use only.

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