SIRT1/2/3-IN-1

Cat. No.: HY-150568

CAS No.: 2413212-06-1

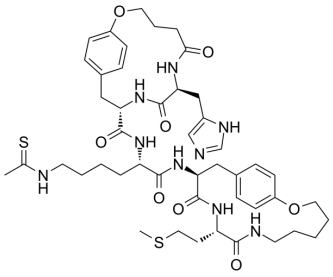
Molecular Formula: $C_{46}H_{63}N_9O_8S_2$

Molecular Weight: 934.18

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	SIRT1/2/3-IN-1 (compound 10) is a highly potent, selective and cell permeable inhibitor of SIRT1, SIRT2 and SIRT3 with IC_{50}s of 0.54, 0.253, and 0.72 μM, respectively. SIRT1/2/3-IN-1 (compound 10) can be used for research of cancer[1].
IC_{50} & Target	IC50: 0.54 μM (SIRT1), 0.253 μM (SIRT2), and 0.72 μM (SIRT3)[1]
In Vitro	SIRT1/2/3-IN-1 (compound 10) possesses cell growth inhibition to cancer cells with time- and concentration-dependently[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Western Blot Analysis[1]

Cell Line:	HCT116 human colon cancer cells
Concentration:	0, 0.5, 2, 10, 50, and 100 μM
Incubation Time:	8 h
Result:	Inhibited deacetylation of the K382-acetylated tumor suppresser protein p53.

Cell Proliferation Assay[1]

Cell Line:	Human MCF-7 breast cancer cells and human SK-MEL-2 melanoma cells
Concentration:	0, 5, 12.5, 25, 50 or 100 μM
Incubation Time:	24 h, 48 h or 72 h
Result:	Concentration-dependently inhibited cell growth.

REFERENCES

[1]. Li R , et al. A bicyclic pentapeptide-based highly potent and selective pan-SIRT1/2/3 inhibitor harboring Nε-thioacetyl-lysine[J]. Bioorganic & Medicinal Chemistry, 2020, 28(7):115356.

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

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