SPV106

Cat. No.: HY-114566

CAS No.: 1036939-38-4

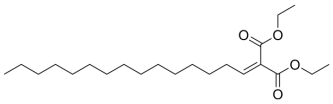
Molecular Formula: $C_{22}H_{40}O_4$

Molecular Weight: 368.55

Target: Histone Acetyltransferase

Pathway: Epigenetics

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

SPV106 is histone acetylase (HAT) and GCN5-related N-acetyltransferases (GNAT) activator. SPV106 can be used for the research of type 2 diabetes (T2D)[1].

In Vitro

SPV106 restores normal levels of H3K9Ac and H3K14Ac, reduces DNA CpG hypermethylation, and recovers D-CMSC proliferation and differentiation[1].

SPV106 (5 μmol/L) reduces cellular senescence and induces cKit expression in D-CMSC[1].

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

Western Blot Analysis[1]

Cell Line:	Human cardiac-specific mesenchymal cell (CMSC)
Concentration:	25 μmol/L
Incubation Time:	6-8 days
Result:	Achieved partial but significant rescue of HAT activity.

RT-PCR[1]

Cell Line:	Human cardiac-specific mesenchymal cell (CMSC)
Concentration:	25 μmol/L
Incubation Time:	7 days
Result:	Not associated to a rescue in gene transcription.

REFERENCES

[1]. Matteo Vecellio, et al. The histone acetylase activator pentadecylidenemalonate 1b rescues proliferation and differentiation in the human cardiac mesenchymal cells of type 2 diabetic patients. Diabetes. 2014 Jun;63(6):2132-47.

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

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA