Lys-CoA TFA

Cat. No.: HY-131035

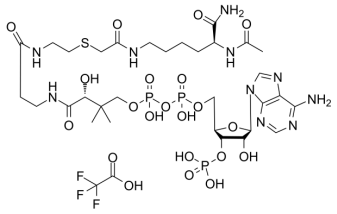
Molecular Formula: $C_{33}H_{54}F_3N_{10}O_{21}P_3S$

Molecular Weight: 1108.82

Target: Histone Acetyltransferase

Pathway: Epigenetics

Storage: -20°C, sealed storage, away from moisture
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

H_2O : 70 mg/mL (63.13 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	0.9019 mL	4.5093 mL	9.0186 mL
	5 mM	0.1804 mL	0.9019 mL	1.8037 mL
	10 mM	0.0902 mL	0.4509 mL	0.9019 mL

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

BIOLOGICAL ACTIVITY

Description

Lys-CoA TFA is a selective p300 histone acetyltransferase (HAT) inhibitor (IC_{50}=50-500 nM). Lys-CoA TFA displays >100-fold selectivity for p300 over PCAF (IC_{50}=200 μM). Lys-CoA TFA inhibits p300 HAT activity-dependent transcriptional activation[1] [2].

IC_{50} & Target

p300
50-500 nM (IC_{50})

In Vitro

Lys-CoA TFA (0.1 and 1 mM; 60 hours) induces a senescent phenotype in human normal melanocytes[3].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Proliferation Assay[3]

Cell Line:	Normal human melanocytes
Concentration:	0.1 and 1 mM
Incubation Time:	60 hours

Result:	Almost completely abolished proliferation, induced high levels of SA-β-Gal, and inhibited cyclin E expression in a dose-dependent manner.

REFERENCES

[1]. Cebrat M, et al. Synthesis and analysis of potential prodrugs of coenzyme A analogues for the inhibition of the histone acetyltransferase p300. Bioorg Med Chem. 2003;11(15):3307-3313.

[2]. Lau OD, et al. HATs off: selective synthetic inhibitors of the histone acetyltransferases p300 and PCAF. Mol Cell. 2000;5(3):589-595.

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