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**Product Data Sheet**

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Product Name: Lys-CoA TFA

Cat. No.: GC68405

**Chemical Properties**

Cas. No.

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

M.Wt 1108.82

Solubility H<sub>2</sub>O : 70 mg/mL (63.13 mM; Need ultrasonic)

Storage Store at -20°C, away from moisture

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

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

Lys-CoA TFA (0.1 and 1 mM; 60 hours) induces a senescent phenotype in human normal melanocytes<sup>[3]</sup>.

Cell Proliferation Assay<sup>[3]</sup>

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.

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

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- [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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