

Product Data Sheet

Product Name: ALOX5 stabilizer-1 TFA

Cat. No.: GC79757

Chemical Properties

Cas. No.

Formula $C_{34}H_{33}F_3N_4O_7$

M.Wt 666.64

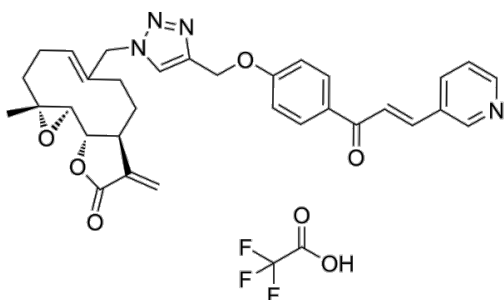
Solubility

Storage Store at 4°C, away from moisture and light

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

ALOX5 stabilizer-1 TFA is an arachidonate 5-lipoxygenase (ALOX5) stabilizer with a K_d of 7.26 μ M. ALOX5 stabilizer-1 TFA inhibits β -catenin protein levels and then suppresses STAT3 signal pathway. ALOX5 stabilizer-1 TFA induces lung cancer cells apoptosis, inhibited cell migration and proliferation. ALOX5 stabilizer-1 TFA can be used for the study of non-small cell lung cancer (NSCLC) [1].

In Vitro, ALOX5 stabilizer-1 (Compound 10d) (72 h) TFA inhibits NCI-H820 cell proliferation with an IC_{50} of 0.11 μ M and shows weaker toxicity against 3T3 cells with an IC_{50} of 0.48 μ M [1]. ALOX5

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

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stabilizer-1 (0-0.2 μ M, 10 d) TFA inhibits colony formation of with NCI-H820 cells a dose-dependent manner^[1]. ALOX5 stabilizer-1 (0-0.2 μ M, 48 h) TFA inhibits NCI-H820 cell migration and induces cell apoptosis^[1]. ALOX5 stabilizer-1 (0-0.2 μ M, 48 h) TFA directly targets ALOX5 protein and enhances protein stability, then inhibites β -catenin protein levels and eventually suppressed STAT3 signal pathway in NCI-H820 cells^[1].

References:

[1]. Bai Y, et al. Design, synthesis and bioactivity evaluation of parthenolide-chalcone hybrids as potential anti-lung cancer agents. Bioorg Chem. 2025 Jul 26;164:108808.

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