

Product Data Sheet

Product Name: MINA53-IN-1

Cat. No.: GC78932

Chemical Properties

Cas. No. 2863676-85-9

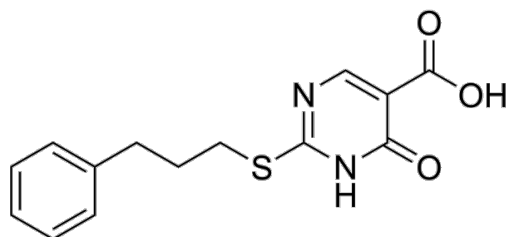
Formula $C_{14}H_{14}N_2O_3S$ M.Wt 290.34

Solubility Storage Store at -20°C

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

MINA53-IN-1 is a selective MINA53 inhibitor with an IC_{50} of 1.5 μM . MINA53-IN-1 induces DNA damage, cell cycle arrest and apoptosis in tumor cells. MINA53-IN-1 can be used for cancer research [1].

In Vitro, MINA53-IN-1 (compound 10) inhibits the proliferation of HL-60 acute promyelocytic leukemia cells after 48 h, with an IC_{50} of 14 μM ^[1]. MINA53-IN-1 (10-100 μM ; 72-120 h) reduces the viability of U-87MG glioblastoma cells, MNK-45 gastric cancer cells and HeLa cervical cancer cells in a dose-

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

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and time-dependent manner^[1]. MINA53-IN-1 (10-20 μ M; 24 h) induces DNA damage, G2/M cell cycle arrest and apoptosis in U-87MG cells, and acts synergistically with Doxorubicin to enhance apoptosis^[1].

References:

[1]. Nowak RP, et al. First-in-Class Inhibitors of the Ribosomal Oxygenase MINA53. J Med Chem. 2021;64(23):17031-17050.

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