
Product Data Sheet

Product Name: Anticancer agent 73

Cat. No.: GC68667

Chemical Properties

Cas. No. 124811-87-6

Formula $C_{14}H_{15}NO_4$

M.Wt 261.27

Solubility DMSO : 100 mg/mL (382.75 mM; Need ultrasonic) 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

Anticancer agent 73 (compound CIB-3b) is a anticancer agent, potently targeting **TAR RNA-binding protein 2 (TRBP)** and disrupts its interaction with Dicer. Anticancer agent 73 can rebalance the expression profile of oncogenic or tumor-suppressive miRNAs. Anticancer agent 73 suppresses the proliferation and metastasis of HCC *in vitro* and *in vivo*^[1].

Anticancer agent 73 (compound CIB-3b) (10 μM; 6 hours) increases the expression of E-cadherin and decreases the protein expression levels of fibronectin, N-cadherin, and vimentin in SK-HEP-1 cells; inhibits the proliferation and migration of SK-HEP-1, HCCLM3 and MHCC97L cells by inhibiting miRNA biogenesis^[1].

Anticancer agent 73 (10, 25 and 50 mg/kg; IV, every 2 days for 4 weeks) attenuates the proliferation and migration of SK-HEP-1 and SK-HEP-1 implanted in SCID mice^[1]

[1]. Peng T, et al. Discovery of a Novel Small-Molecule Inhibitor Disrupting TRBP-Dicer Interaction against Hepatocellular Carcinoma via the Modulation of microRNA Biogenesis. J Med Chem. 2022 Jun 13.

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

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