

GA-017

Chemical Properties

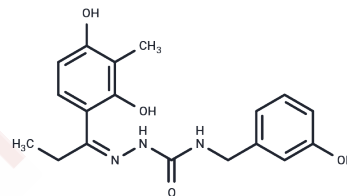
CAS No. : 2351906-74-4

Formula: C₁₈H₂₁N₃O₄

Molecular Weight: 343.38

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	GA-017 is a potent, selective inhibitor of LATS1 and LATS2 (large tumor suppressor kinase 1/2), exhibiting IC ₅₀ values of 4.10 and 3.92 nM, respectively. This compound simultaneously acts as an activator of cell proliferation by promoting YAP/TAZ activation and their nuclear translocation. Additionally, GA-017 enhances cell growth in 3D culture conditions and augments the ex vivo formation of mouse intestinal organoids
Targets(IC ₅₀)	Others, YAP
In vitro	GA-017 suppresses the HUVECs cell death and promotes their cell growth [1]. GA-017 facilitates SKOV3 cell growth, with an EC ₅₀ of 3.51 ± 0.26 μM [1]. GA-017 competitively inhibited LATS1 and 2 against ATP, with K _i (inhibition constant) values of 0.58 ± 0.11 and 0.25 ± 0.03 nM, respectively [1].

Solubility Information

Solubility	DMSO: 150 mg/mL (436.83 mM), Sonication and heating to 80°C are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9122 mL	14.5611 mL	29.1223 mL
5 mM	0.5824 mL	2.9122 mL	5.8245 mL
10 mM	0.2912 mL	1.4561 mL	2.9122 mL
50 mM	0.0582 mL	0.2912 mL	0.5824 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Aihara A, et al. Small molecule LATS kinase inhibitors block the Hippo signaling pathway and promote cell growth under 3D culture conditions. J Biol Chem. 2022 Apr;298(4):101779.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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