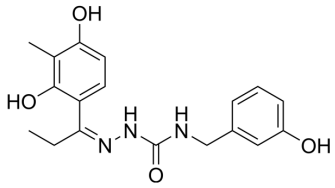
GA-017

Cat. No.:	HY-147082
CAS No.:	2351906-74-4
Molecular Formula:	$C_{18}H_{21}N_3O_4$
Molecular Weight:	343.38
Target:	YAP
Pathway:	Stem Cell/Wnt
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 20.83 mg/mL (60.66 mM; ultrasonic and warming and heat to 80°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	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

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

GA-017 is a potent and selective LATS1 and LATS2 (large tumor suppressor kinase 1/2) inhibitor, with IC_{50} values of 4.10 and 3.92 nM, respectively. GA-017 is an activator of cell proliferation. GA-017 promotes YAP/TAZ activation and nuclear translocation. GA-017 promotes cell growth under 3D culture conditions. GA-017 enhances the ex vivo formation of mouse intestinal organoids[1].

IC_{50} & Target

IC_{50}: 3.92 ± 0.42 nM (LATS2), 4.10 ± 0.79 nM (LATS1)[1]

In Vitro

GA-017 suppresses the cell death of HUVECs 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].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. 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.

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