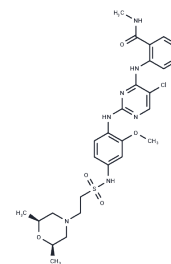


FAK-IN-20

Chemical Properties

CAS No. :	3004967-41-0
Formula:	C ₂₇ H ₃₄ ClN ₇ O ₅ S
Molecular Weight:	604.12
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	FAK-IN-20 (Compound 7b), a potent FAK inhibitor, demonstrates an IC ₅₀ of 0.27 nM and exhibits anticancer properties. This compound arrests the cell cycle in the G ₂ /M phase and induces cell apoptosis (apoptosis) through the generation of ROS [1].
Targets(IC ₅₀)	Apoptosis,FAK
In vitro	FAK-IN-20 (Compound 7b) exhibits anticancer activity by inhibiting cell proliferation in human tumor cell lines such as HCT116 (colon cancer), A549 (lung cancer), MDA-MB-231 (breast cancer), and HeLa (cervical cancer), with IC ₅₀ values of 0.58, 0.75, 1.18, and 1.4 μM, respectively [1]. In HCT116 cells, FAK-IN-20 (0.2-2 μM; 24 h) causes cell cycle arrest at the G ₂ /M phase and induces apoptosis through ROS generation (1-125 μM; 12 h) and apoptosis induction (0.2-25 μM; 12 h) [1]. Additionally, FAK-IN-20 (1 μM; 24 h) can inhibit cell migration in HCT116 cells [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6553 mL	8.2765 mL	16.553 mL
5 mM	0.3311 mL	1.6553 mL	3.3106 mL
10 mM	0.1655 mL	0.8277 mL	1.6553 mL
50 mM	0.0331 mL	0.1655 mL	0.3311 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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