

Antitumor agent-101

Chemical Properties

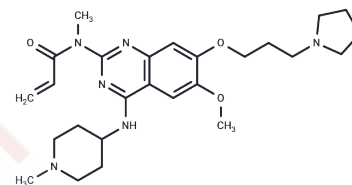
CAS No. : 2848632-52-8

Formula: C₂₆H₃₈N₆O₃

Molecular Weight: 482.62

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	Antitumor agent-101 is a selective, covalent inhibitor targeting lysine methyltransferases G9a/GLP, demonstrating IC ₅₀ values of 8.5 nM for G9a and 5.5 nM for GLP. It exhibits antitumor efficacy in the PANC-1 xenograft model [1].
Targets(IC ₅₀)	Histone Methyltransferase, Glucagon Receptor
In vitro	Antitumor agent-101 (Compound 27) (0-5 μM; 48 hours) inhibits proliferation and colony formation in PANC-1 and MDA-MB-231 cells [1]. Furthermore, Antitumor agent-101 (0-10 μM; 0-96 hours) effectively reduces H3K9me ₂ levels in these cells in a concentration- and time-dependent manner.
In vivo	Antitumor agent-101 (Compound 27), administered at 2 mg/kg via intraperitoneal injection five times per week, inhibits the growth of PANC-1 xenograft tumors by suppressing the methyltransferase activity of G9a/GLP [1]. Additionally, this compound demonstrates a peak plasma concentration (C _{max}) of 316 ng/mL and a mean residence time (MRT) of 0.61 hours [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.072 mL	10.3601 mL	20.7202 mL
5 mM	0.4144 mL	2.072 mL	4.144 mL
10 mM	0.2072 mL	1.036 mL	2.072 mL
50 mM	0.0414 mL	0.2072 mL	0.4144 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

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481