

MC3343

Chemical Properties

CAS No. : 1535187-91-7

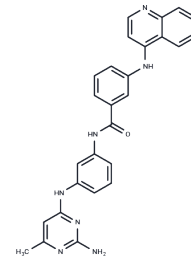
Formula: C₂₇H₂₃N₇O

Molecular Weight: 461.52

Keep away from moisture

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	MC3343, a DNMT inhibitor with IC ₅₀ values of 5.7 μM for DNMT1 and 1.7 μM for DNMT3a, affects tumor proliferation by blocking osteosarcoma cells in the G1 or G2/M phase and induces osteogenic differentiation by specifically re-expressing genes that regulate this physiological process, and is able to show synergistic effects in combination with adriamycin and cisplatin (CDDP).
Targets(IC ₅₀)	DNA Methyltransferase

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1668 mL	10.8338 mL	21.6675 mL
5 mM	0.4334 mL	2.1668 mL	4.3335 mL
10 mM	0.2167 mL	1.0834 mL	2.1668 mL
50 mM	0.0433 mL	0.2167 mL	0.4334 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

Maria Cristina Manara, et al. A Quinoline-Based DNA Methyltransferase Inhibitor as a Possible Adjuvant in Osteosarcoma Therapy. *Mol Cancer Ther.* 2018 Sep;17(9):1881-1892.

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