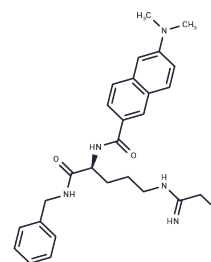


YW3-56

Chemical Properties

CAS No. : 1374311-17-7
 Formula: C₂₇H₃₂ClN₅O₂
 Molecular Weight: 494.03
 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	YW3-56 is a potent peptidylarginine deiminase (PAD) inhibitor, with an IC ₅₀ of 1-5 μM for PAD4.
Targets(IC ₅₀)	Others
In vitro	Compared with Cl-amidine, YW3-56 shows >60-fold increase in cell growth inhibition efficacy (IC ₅₀ about 2.5 μM) but only 5-fold increase in PAD4 inhibition (IC _{sub>50} about 1-5 μM). At 2-4 μM concentrations, YW3-56 displays mainly cytostatic effects by slowing cell division, whereas at higher concentrations, it exerts cytotoxic effects by altering cell morphology and killing cells[1].

Solubility Information

Solubility	DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0242 mL	10.1208 mL	20.2417 mL
5 mM	0.4048 mL	2.0242 mL	4.0483 mL
10 mM	0.2024 mL	1.0121 mL	2.0242 mL
50 mM	0.0405 mL	0.2024 mL	0.4048 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

Wang Y, et al. Anticancer peptidylarginine deiminase (PAD) inhibitors regulate the autophagy flux and the mammalian target of rapamycin complex 1 activity. J Biol Chem. 2012 Jul 27;287(31):25941-53.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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