

DI-87 biochemical

DI-87

CATALOG #
AAA228124

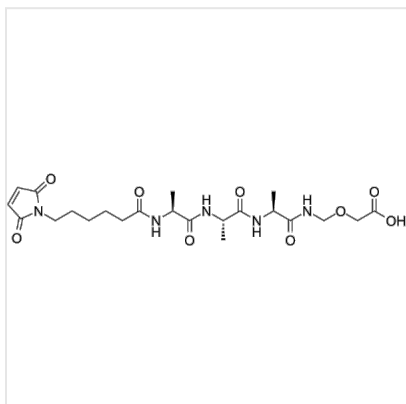
PRODUCT SYNONYMS

DI-87; DI-87 biochemical

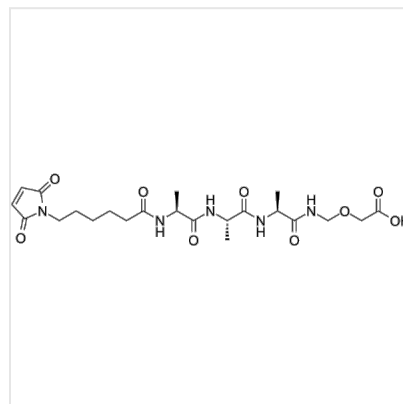
PRODUCT SPECIFICATIONS

Purity/Purification	98%
CAS	2107280-55-5
Targets&IC50	dCK:10.2 nM (EC50)
Solubility	<1mg/ml refers to the product slightly soluble or insoluble
In vitro	DI-87 (5-25 mg/kg; oral gavage) exhibits full dCK inhibition for 27 hours, and enzyme activity fully recovered by 36 hours with 25 mg/kg dose[1]. DI-87 (10-50 mg/kg; oral) has plasma concentrations of between 1 and 3 hours and plasma half-life of 4 hours[1]. DI-87 (10 mg/kg/day or 25 mg/kg/twice a day; oral; for 16-18 days) with thymidine (2 g/kg; ip; twice a day) results in reduced tumor growth in male NSG mice implanted with CEM tumors[1]. Animal Model: 8-12 week-old male or female NSG mice with CEM tumor xenografts[1]. Dosage: 5, 10, 25 mg/kg. Administration: Oral gavage. Result: The 25 mg/kg dose exhibited full dCK inhibition for 27 hours, and enzyme activity fully recovered by 36 hours. The 10 mg/kg dose resulted in full inhibition with recovery initiating at the 12 hours time point. The 5 mg/kg dose resulted in minimal dCK inhibition with rapid recovery. Animal Model: Female NSG mice with CEM tumors[1]. Dosage: 10, 25, or 50 mg/kg. Administration: Oral. Result: Had plasma concentrations of between 1 and 3 hours and plasma half-life of 4 hours. Had tumor concentrations lower than plasma and had a later, more sustained peak at 3-9 hours.
Preparation and Storage	Powder: -20 degree C for 3 years In solvent: -80 degree C for 2 years

IMAGES


Structure

MC-AAA-NHCH2OCH2COOH, CAS 2414594-28-6


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ADDITIONAL INFORMATION

Related Product Information for DI-87 biochemical	DI-87 is an orally active and selective deoxycytidine kinase (dCK) inhibitor with an EC 50 of 10.2 nM. DI-87 has antitumor activity and is used in combination therapy against tumors expressing dCK.
References	1. Li W, et, al. Synthesis and Evaluation of Camptothecin Antibody-Drug Conjugates. ACS Med Chem Lett. 2019 Sep 6;10(10):1386-1392.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/biochemical/di-87/228124>