Data Sheet (Cat.No.T24525)

TargetMol

Negamycin

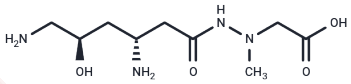
Chemical Properties

CAS No. : 33404-78-3

Formula: C9H20N4O4

Molecular Weight: 248.28

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	Negamycin is an agent of broad-spectrum antibacterial that acts by inhibiting protein synthesis.
Targets(IC50)	Others,Antibacterial

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.0277 mL	20.1386 mL	40.2771 mL
5 mM	0.8055 mL	4.0277 mL	8.0554 mL
10 mM	0.4028 mL	2.0139 mL	4.0277 mL
50 mM	0.0806 mL	0.4028 mL	0.8055 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

Pranke I, Bidou L, Martin N, Blanchet S, Hatton A, Karri S, Cornu D, Costes B, Chevalier B, Tondelier D, Girodon E, Coupet M, Edelman A, Fanen P, Namy O, Sermet-Gaudelus I, Hinzpeter A. Factors influencing readthrough therapy for frequent cystic fibrosis premature termination codons. ERJ Open Res. 2018 Feb 23;4(1). pii: 00080-2017. doi: 10.1183/23120541.00080-2017. eCollection 2018 Jan. PubMed PMID: 29497617; PubMed Central PMCID: PMC5827411.

Taguchi A, Hamada K, Shiozuka M, Kobayashi M, Murakami S, Takayama K, Taniguchi A, Usui T, Matsuda R, Hayashi Y. Structure-Activity Relationship Study of Leucyl-3-epi-deoxynegamycin for Potent Premature Termination Codon Readthrough. ACS Med Chem Lett. 2017 Sep 29;8(10):1060-1065. doi: 10.1021/acsmedchemlett.7b00269. eCollection 2017 Oct 12. PubMed PMID: 29057051; PubMed Central PMCID: PMC5642019.

Taguchi A, Hamada K, Hayashi Y. Chemotherapeutics overcoming nonsense mutation-associated genetic diseases: medicinal chemistry of negamycin. J Antibiot (Tokyo). 2018 Feb;71(2):205-214. doi: 10.1038/ja.2017.112. Epub 2017 Sep 27. Review. PubMed PMID: 28951602.

Cocozaki AI, Altman RB, Huang J, Buurman ET, Kazmirski SL, Doig P, Prince DB, Blanchard SC, Cate JH, Ferguson AD. Resistance mutations generate divergent antibiotic susceptibility profiles against translation inhibitors. Proc Natl Acad Sci U S A. 2016 Jul 19;113(29):8188-93. doi: 10.1073/pnas.1605127113. Epub 2016 Jul 5. PubMed PMID: 27382179; PubMed Central PMCID: PMC4961145.