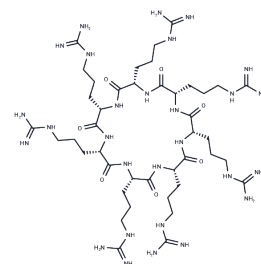


NP213

Chemical Properties

CAS No. :	942577-31-3
Formula:	C42H84N28O7
Molecular Weight:	1093.3
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	NP213 is a rapidly acting synthetic antimicrobial peptide (AMP). NP213 is effective and well-tolerated in resolving nail fungal infections. NP213 has anti-fungal activities. NP213 targets the fungal cytoplasmic membrane and plays its role via membrane perturbation and disruption.
Targets(IC50)	Epigenetic Reader Domain,Antifungal
In vivo	NP213 demonstrates both tolerability and efficacy, with a half-life of approximately 4.5 hours in murine models of acute disseminated candidiasis. At a dosage of 25 mg/kg, NP213 is well-tolerated in mice [3].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.9147 mL	4.5733 mL	9.1466 mL
5 mM	0.1829 mL	0.9147 mL	1.8293 mL
10 mM	0.0915 mL	0.4573 mL	0.9147 mL
50 mM	0.0183 mL	0.0915 mL	0.1829 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

Mercer DK, et al. Improved Methods for Assessing Therapeutic Potential of Antifungal Agents against Dermatophytes and Their Application in the Development of NP213, a Novel Onychomycosis Therapy Candidate. Antimicrob Agents Chemother. 2019 Apr 25;63(5). pii: e02117-18

Neelabh, et al. Sequential and Structural Aspects of Antifungal Peptides from Animals, Bacteria and Fungi Based on Bioinformatics Tools. Probiotics Antimicrob Proteins. 2016 Jun;8(2):85-101.

Novamycin®/NP339 Technology Summary

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

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