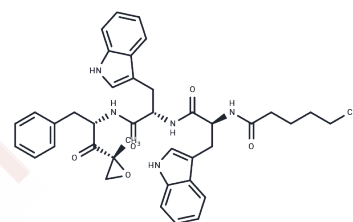


## Carmaphycin-17

## Chemical Properties

CAS No. :	2143080-91-3
Formula:	C40H45N5O5
Molecular Weight:	675.82
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	Carmaphycin-17 (CP-17) is a selective proteasome inhibitor with an EC50 of 217 nM. It exhibits potent antimicrobial activity against <i>Trichomonas vaginalis</i> and can overcome resistance to Metronidazole. In mouse models of vaginal trichomoniasis, CP-17 significantly reduces parasite burden after topical treatment without any observed adverse effects. Additionally, Carmaphycin-17 is useful for researching sexually transmitted diseases like trichomoniasis.
Targets(IC50)	Proteasome,Parasite

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4797 mL	7.3984 mL	14.7968 mL
5 mM	0.2959 mL	1.4797 mL	2.9594 mL
10 mM	0.148 mL	0.7398 mL	1.4797 mL
50 mM	0.0296 mL	0.148 mL	0.2959 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.

**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