# Data Sheet (Cat.No.T19717)



## Cyclo-L-Trp-L-Trp

Chemical Propert	ies
CAS No. :	20829-55-4
Formula:	C22H20N4O2
Molecular Weight:	372.42
Appearance:	no data available
Storage:	keep away from moisture
	Powder: -20°C for 3 years   In solvent: -80°C for 1 year

#### **Biological Description**

Description	Cyclo-L-Trp-L-Trp is a broad-spectrum antifungal. It also induces a high degree of acetylation of histones.
Targets(IC50)	Antifungal
In vitro	Two novel cyclic hexapeptides designated actinosynneptides A (1) and B (2), together with three tryptophan containing diketopiperazines, namely cyclo(L-Trp-L-Trp) (3), cyclo(L-Trp-N-MeL-Trp) (4), and cyclo(N-MeL-Trp-N-MeL-Trp) (5), were isolated from the culture of the genetically engineered strain HGF052::asm18 derived from Actinosynnema pretiosum ATCC31565. Their structures were elucidated on the basis of spectroscopic analyses and single-crystal X-ray diffractions. Compound 1 is the first example of 3-amino-6-hydroxy-2-piperidone-containing cyclic peptides, and 1 and 2 showed moderate cytotoxic activities against HeLa and PC3 cell lines[1].

Solubility Information	e v	
Solubility	DMSO: 30 mg/mL (80.56 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)	10

#### **Preparing Stock Solutions**

	1mg	5mg	10mg
1 mM	2.6851 mL	13.4257 mL	26.8514 mL
5 mM	0.537 mL	2.6851 mL	5.3703 mL
10 mM	0.2685 mL	1.3426 mL	2.6851 mL
50 mM 📀	0.0537 mL	0.2685 m	0.537 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.

### Reference

Lu C, Xie F, Shan C, Shen Y. Two novel cyclic hexapeptides from the genetically engineered Actinosynnema pretiosum. Appl Microbiol Biotechnol. 2017 Mar;101(6):2273-2279. doi: 10.1007/s00253-016-8017-3. Epub 2016

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