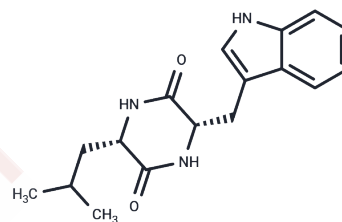


## Cyclo(L-Leu-L-Trp)

## Chemical Properties

CAS No. :	15136-34-2
Formula:	C17H21N3O2
Molecular Weight:	299.374
Storage:	Keep away from moisture Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	Cyclo(L-Leu-L-Trp) is a diketopiperazine metabolite initially derived from Penicillium, exhibiting antibacterial (MICs = 125-1000 µg/ml) and antifungal activities (MICs = 8-64 µg/ml). It also demonstrates antioxidant properties by reducing the production of hydroxy radicals, as evidenced in an electron spin resonance (ESR) spectroscopy assay (IC <sub>50</sub> = 1.8 µM). Additionally, Cyclo(L-Leu-L-Trp) has been identified as a bitter compound capable of quickly crossing rat taste cell membranes ex vivo at a 1 mM concentration. Furthermore, it acts as a melatonin receptor agonist in <i>X. laevis</i> melanophores, suppressing cAMP accumulation at a 20 µM concentration, with this effect being negated by the melatonin receptor antagonist luzindole.
Targets(IC <sub>50</sub> )	Others,Melatonin Receptor,Antibacterial,Antifungal

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3403 mL	16.7017 mL	33.4035 mL
5 mM	0.6681 mL	3.3403 mL	6.6807 mL
10 mM	0.334 mL	1.6702 mL	3.3403 mL
50 mM	0.0668 mL	0.334 mL	0.6681 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**

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

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481