

Product Datasheet

Cyclo(L-Leu-L-Trp) (orb2299204)

Catalog Number	orb2299204
Category	Small Molecules
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 (IC₅₀ = 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 X. laevis melanophores, suppressing cAMP accumulation at a 20 µM concentration, with this effect being negated by the melatonin receptor antagonist luzindole.
Target	Others
MW	299.374
CAS Number	15136-34-2
Formula	C ₁₇ H ₂₁ N ₃ O ₂
SMILES	<chem>CC(C)C[C@@H]1NC(=O)[C@H](Cc2c[nH]c3ccccc23)NC1=O</chem>
Storage	-20°C
Note	For research use only

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