Cyclo(L-Trp-L-Trp)

Cat. No.: HY-P2124

CAS No.: 20829-55-4

Molecular Formula: $C_{22}H_{20}N_4O_2$

Molecular Weight: 372.42

Target: Antibiotic; Bacterial

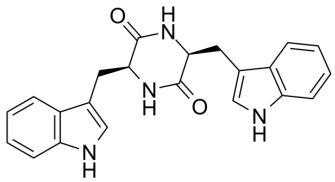
Pathway: Anti-infection

Storage: Sealed storage, away from moisture and light

Powder -80°C 2 years

-20°C 1 year

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (335.64 mM; Need ultrasonic)

Caution: Product has not been fully validated for medical applications. For research use only.

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.6851 mL	13.4257 mL	26.8514 mL
	5 mM	0.5370 mL	2.6851 mL	5.3703 mL
	10 mM	0.2685 mL	1.3426 mL	2.6851 mL

Please refer to the solubility information to select the appropriate solvent.

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BIOLOGICAL ACTIVITY

Description

Cyclo(L-Trp-L-Trp) is an antibiotic, and shows antimicrobial activity. Cyclo(L-Trp-L-Trp) can inhibit A. baumannii, as well as Candida albicans, Bacillus subtilis, Micrococcus luteus, Saccharomyces cerevisiae, Aspergillus niger, Staphylococcus aureus. Cyclo(L-Trp-L-Trp) can be used in microbial infection research[1].

In Vitro

Cyclo(L-Trp-L-Trp) can inhibit A. baumannii (MICs=12.5-25 μg/mL), as well as Candida albicans, Bacillus subtilis, Micrococcus luteus, Saccharomyces cerevisiae, Aspergillus niger, Staphylococcus aureus (MICs=12.5-50 μg/mL)[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Keyong Ho Lee, et al. Identification of Streptomyces sp. KH29, which produces an antibiotic substance processing an inhibitory activity against multidrug-resistant Acinetobacter baumannii. J Microbiol Biotechnol. 2010 Dec;20(12):1672-6.