Cyclo(L-Phe-L-Val)

Cat. No.: HY-121982 CAS No.: 35590-86-4 Molecular Formula: $C_{14}H_{18}N_{2}O_{2}$ Molecular Weight: 246.3 Target: Fungal Pathway: Anti-infection

Storage: Sealed storage, away from moisture

> Powder -80°C 2 years

-20°C 1 year

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

Product Data Sheet

SOLVENT & SOLUBILITY

In Vitro

DMSO: 8.33 mg/mL (33.82 mM; ultrasonic and warming and heat to 70°C)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	4.0601 mL	20.3004 mL	40.6009 mL
	5 mM	0.8120 mL	4.0601 mL	8.1202 mL
	10 mM	0.4060 mL	2.0300 mL	4.0601 mL

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

BIOLOGICAL ACTIVITY

Description	Cyclo(L-Phe-L-Val) is a potent inhibitor of enzymes isocitrate lyase (ICL) (IC $_{50}$ =27 μ g/mL). cyclo(L-Phe-L-Val) inhibits the gene transcription of ICL in C. albicans under C $_2$ -carbon-utilizing conditions ^[1] .
IC ₅₀ & Target	Isocitrate lyase (ICL) ^[1]
In Vitro	Cyclo(L-Phe-L-Val) (32 μ g/mL; 2 d) decreases icl product in C. albicans SC5314 (wild-type), MRC10 (Δ icl), and MRC11 (Δ icl + ICL), respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Kim H, et al. Inhibitory Effects of Diketopiperazines from Marine-Derived Streptomyces puniceus on the Isocitrate Lyase of Candida albicans. Molecules. 2019 Jun 4;24(11):2111.

 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$

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