

## Product Data Sheet

Product Name: Cyclo(L-Ile-L-Ala)

Cat. No.: GC81379

### Chemical Properties

Cas. No. 35590-69-3

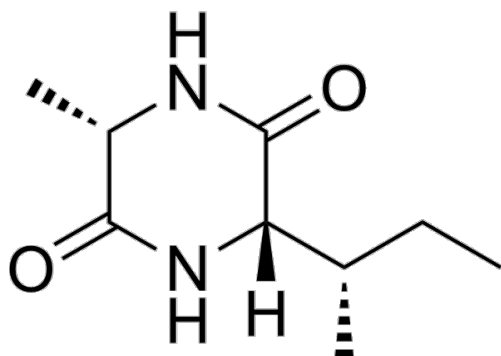
Formula  $C_9H_{16}N_2O_2$  M.Wt 184.24

Solubility DMSO: 10 mg/mL (54.28 mM; Need ultrasonic) Storage Sealed storage, away from moisture

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



### Background

Cyclo (L-Ile-L-Ala) is a cyclic dipeptide (2,5-diketopiperazine). Cyclo (L-Ile-L-Ala) self-assembles into ordered two-dimensional lamellae in hexafluoroisopropanol; increasing concentrations lead to the formation of larger, more complex lamellae. Cyclo (L-Ile-L-Ala) self-assembles into fibrous structures in methanol, and its self-assembly process is sensitive to solvent conditions and building block concentrations [1].

In Vitro, Cyclo (L-Ile-L-Ala) is a 2,5-diketopiperazine cyclic dipeptide formed from isoleucine and

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

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alanine.

### References:

[1]. Kaili Zhao, et al. Cyclic dipeptides: Biological activities and self-assembled materials. Pept Sci. 2020;e24202.

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