

## Product Data Sheet

Product Name: H-Ile-Pro-Pro-OH

Cat. No.: GC32611

### Chemical Properties

Cas. No. 26001-32-1

Formula  $C_{16}H_{27}N_3O_4$

M.Wt 325.4

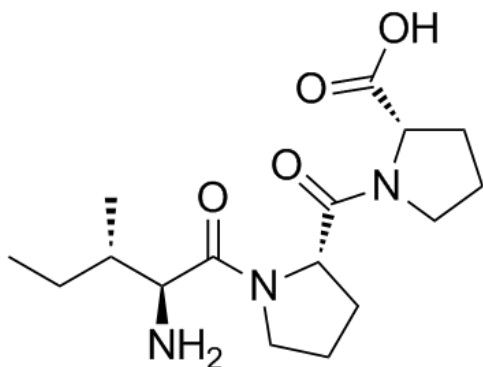
Solubility Soluble in DMSO

Storage Store at -20°C

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

H-Ile-Pro-Pro-OH, a milk-derived peptide[1], inhibits angiotensin-converting enzyme (ACE)[1] with an IC<sub>50</sub> of 5 μM[2]. Antihypertensive tripeptides[1].

Vitro: Ile-Pro-Pro (IPP) increases nitric oxide (NO) production in human umbilical vein endothelial cells (HUVECs)[1].

Vivo: Ile-Pro-Pro attenuates arterial dysfunction in L-NAME-treated rats[1]. Ile-Pro-Pro (IPP) decreases blood pressure in spontaneously hypertensive rats (SHR) [1]. Ile-Pro-Pro (IPP) attenuates the development of atherosclerosis in apolipoprotein E-deficient (apoE(-/-)) mice[1].

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

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[1]. Nonaka A, et al. The milk-derived peptides Val-Pro-Pro and Ile-Pro-Pro attenuate arterial dysfunction in L-NAME-treated rats. *Hypertens Res.* 2014 Aug;37(8):703-7. [2]. Nakamura Y, et al. Purification and characterization of angiotensin I-converting enzyme inhibitors from sour milk. *J Dairy Sci.* 1995 Apr;78(4):777-83.

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