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## Product Data Sheet

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Product Name: Prolyl Endopeptidase Inhibitor 1

Cat. No.: GC38838

### Chemical Properties

Cas. No. 86925-97-5

SMILES O=C(N1[C@H](C(N2[C@H](C=O)CCC2)=O)CCC1)OC(C)(C)C

Formula  $C_{15}H_{24}N_2O_4$  M.Wt 296.36

Solubility DMSO : 100 mg/mL (337.43 mM; Need ultrasonic) 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

Prolyl Endopeptidase Inhibitor 1 (Boc-Pro-prolinal) is a potent prolyl endopeptidase (PEP; PE) inhibitor, with a  $K_i$  value of 15 nM. Prolyl Endopeptidase Inhibitor 1 has anti-amnesic effect[1].

Prolyl Endopeptidase Inhibitor 1 (Boc-Pro-prolinal) strongly inhibits the mammalian prolyl endopeptidase with a  $K_i$  value of nM order, while the  $K_i$  value for the microbial enzyme is only of microM order ( $K_i=3.2 \mu\text{M}$  for Flavobacterium)[1].

[1]. Yoshimoto T, et al. Specific inhibitors for prolyl endopeptidase and their anti-amnesic effect. J Pharmacobiodyn. 1987 Dec;10(12):730-5. [2]. Yoshimoto T, et al. Comparison of inhibitory effects of prolinal-containing peptide derivatives on prolyl endopeptidases from bovine brain and Flavobacterium. J Biochem. 1985 Oct;98(4):975-9.

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

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