

Product Data Sheet

Product Name: Z-Pro-prolinal

Cat. No.: GC70710

Chemical Properties

Cas. No. 88795-32-8

Formula $C_{18}H_{22}N_2O_4$

M.Wt 330.38

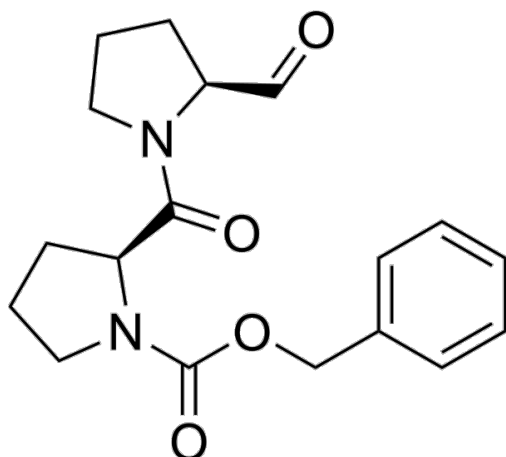
Solubility

Storage

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

Z-Pro-prolinal (N-Benzyloxycarbonyl-L-prolyl-L-prolinal) is a specific, orally active prolyl endopeptidase (PREP) inhibitor with an IC₅₀ of 0.4 nM for porcine PREP.

Z-Pro-prolinal (N-Benzyloxycarbonyl-L-prolyl-L-prolinal) (100 mg/kg; p.o.; once) increases septal vasopressin content in rats^[3].

References:

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

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- [1]. Tsuru D, et al. Thiazolidine derivatives as potent inhibitors specific for prolyl endopeptidase. J Biochem. 1988;104(4):580-586.
- [2]. Kilpeläinen TP, et al. The effect of prolyl oligopeptidase inhibitors on alpha-synuclein aggregation and autophagy cannot be predicted by their inhibitory efficacy. Biomed Pharmacother. 2020;128:110253.
- [3]. Miura N, et al. Increase in the septal vasopressin content by prolyl endopeptidase inhibitors in rats. Neurosci Lett. 1995;196(1-2):128-130.

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