

朝鮮人參テトラペプチドH-L-Val- γ -D-
Glu-D-Arg-Gly-OHの溶液中の
コンホメーション

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**Solution Conformation of Ginseng Tetrapeptide
H-L-Val- γ -D-Glu-D-Arg-Gly-OH**

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ABSTRACT The ginseng tetrapeptide H-L-Val- γ -D-Glu-D-Arg-Gly-OH (1) was synthesized using a solution-phase methodology, and its solution conformation in dimethyl sulfoxide (DMSO)-d₆ was determined by a combination of NMR and computational techniques with the DADAS90 program. This compound has a rigid backbone based on three intramolecular hydrogen bonds between D-Arg NH and L-Val CO, between Gly NH and D-Glu CO, and between Gly NH and Gly CO.

抄録 朝鮮人參テトラペプチドH-L-Val- γ -D-Glu-D-Arg-Gly-OH (1)のDMSO-d₆溶液中におけるコンホメーションをNMRとコンピュータ(DADAS90)を用いた計算により決定した。このものは三つの分子内水素結合(D-Arg NH-L-Val CO, Gly NH-D-Glu CO, Gly NH-Gly CO)により、剛直な骨格を有していることが判明した。

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