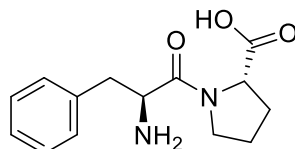


L-Phe-L-Pro

Code No.: **BIA-P2369**

Pack sizes: **5 mg, 25 mg**



Synonyms : L-Phenylalanyl-L-proline

Specifications

CAS #	: 7669-65-0
Molecular Formula	: C ₁₄ H ₁₈ N ₂ O ₃
Molecular Weight	: 262.3
Source	: Synthetic
Appearance	: White solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in methanol or DMSO

Application Notes

L-Phe-L-Pro (phenylalanylproline) is a dipeptide isolated from *Streptomyces lavendulae* no. 314. L-Phe-L-Pro is an incomplete breakdown product of protein catabolism. L-Phe-L-Pro demonstrates cholesterol-lowering activity in hypercholesterolemic rats via decreased ATP-binding cassette transporter A1 (ABCA1) expression in the rat jejunum and reduced cholesterol absorption in Caco-2 cells.

References

1. Diketopiperazines containing L-proline from *Streptomyces lavendulae* and their stereochemistry in solution. Kubo A. et al. *Experientia* 1977, 33, 12.
2. Identification of a novel cholesterol-lowering dipeptide, phenylalanine-proline (FP), and its down-regulation of intestinal ABCA1 in hypercholesterolemic rats and Caco-2 cells. Banno A. et al. *Sci Rep.* 2019, 9, 19416.